

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H and PART 24 SUBPART E

OF

Product Name: PDA Phone

Brand Name: HTC

Model Name: SAPP100

FCC ID: NM8SPRV

Report No.: EH/2008/B0010

Issue Date: Dec. 02, 2008

FCC Rule Part: 2, 22H & 24E

Prepared for: HTC Corporation

No. 23 Xinghua Rd., Taoyuan City, Taoyuan
County 330, Taiwan, ROC

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory

No. 134, Wu Kung Rd., Wuku Industrial
Zone, Taipei County, Taiwan.

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VERIFICATION OF COMPLIANCE

Applicant: HTC Corporation
No. 23 Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan, ROC

Product Name: PDA Phone

Brand Name: HTC

FCC ID: NM8SPRV

Model No.: SAPP100

Model Difference: N/A

File Number: EH/2008/B0010

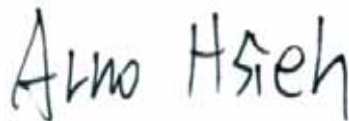
Date of test: Nov. 12, 2008 ~ Nov. 30, 2008

Date of EUT Received: Nov. 12, 2008

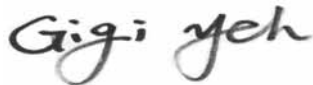
We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule FCC PART 22 subpart H and FCC PART 24 subpart E.

The test results of this report relate only to the tested sample identified in this report.

Test By:**Date:**

Dec. 02, 2008

*Arno Hsieh / Sr. Engineer***Prepared By:****Date:**

Dec. 02, 2008

*Gigi Yeh / Clerk***Approved By****Date:**

Dec. 02, 2008

Vincent Su / Manager

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Version

Version No.	Date	Description
00	Dec. 02, 2008	Initial creation of document

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1. GENERAL INFORMATION

General:

Product Name	PDA Phone	
Brand Name	HTC	
Model Name	SAPP100	
Model Difference	N/A	
Data Cable (USB)	1. Model No.: DC U200, Supplier: ACON 2. Model No.: DC U200, Supplier: MEC	
Simple Hands-free (SHF)	1. Model No.: HS S200, Supplier: COTRON	
Power Supply	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter	
	Battery:	1. Model: SAPP160, Supplier: Total Wirelrs Solutions(TWS) 2. Model No.: SAPP160, Supplier: WELLDONE
	Adapter:	1. Model No(US): PSAA05A-050, Supplier: PHIHONG

GSM and WCDMA:

	Operating Frequency		Rated Power
Cellular Phone Standards Frequency Range and Power	GSM/GPRS/EDGE 850 Class 12	824.2 MHz– 848.8 MHz	33 dBm
	GSM/GPRS/EDGE 900 Class 12	880.2MHz – 914.8MHz	33 dBm
	GSM/GPRS/EDGE 1800 Class 12	1710.2MHz-1784.8MHz	30 dBm
	GSM/GPRS/EDGE 1900 Class 12	1850.2MHz – 1909.8MHz	30 dBm
	WCDMA/HSUPA/HSDPA Band I	1922.4MHz – 1977.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA Band VIII	880.4MHz – 914.6MHz	24 dBm
Type of Emission	GSM 850: 246KGXW GSM 1900 :246KGXW EDGE 850: 248KG7W EDGE 1900:248KG7W		
IMEI	354059020016800		

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WLAN:

Frequency Range:	2412 – 2462 MHz
Channel number:	11 channels
Max. Output Power:	802.11 b: 17.15 dBm (Peak) 802.11 g: 17.14dBm (Peak)
Modulation Technology:	DSSS, OFDM
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate:	802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps
Antenna Designation:	PIFA Antenna / 1.1dBi.
Type of Emission	16M3M5D

The EUT is compliance with IEEE 802.11 b/g Standard.

Bluetooth:

Bluetooth Ver.sion	<input type="checkbox"/> V1.1 (GFSK) <input type="checkbox"/> V1.2 (GFSK) <input type="checkbox"/> V2.0 (GFSK) <input checked="" type="checkbox"/> V2.0 + EDR (GFSK + /4DQPSK + 8DPSK) <input type="checkbox"/> V2.1 + EDR (GFSK + /4DQPSK + 8DPSK)
Frequency Range	2402 – 2480MHz
Channel number	79 channels max.
Rated Power	0.17 dBm (Peak)
Modulation type	Frequency Hopping Spread Spectrum
Antenna Designation	PIFA Antenna / 1.1dBi.
Type of Emission	1M22F7D

The EUT is compliance with Bluetooth 2.0 Standard.

This test report applies for GSM/EDGE 850, GSM/EDGE 1900

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1.1 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: NM8SPRV filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

1.2 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4: 2003 and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

1.3 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-1

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 & 10 meters) and FCC Registration Number: TW1016.

All equipment is calibrated externally and traceable to SI (International System of Unit).

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 AC Power Line Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4: 2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and AVer. age detector mode.

2.3.2 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.3 Radiated Emissions (ERP/EIRP):

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna. according to the requirements in Section 8 and 13 of ANSI C63.4:2003.

2.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2008	04/18/2010
Spectrum Analyzer	Agilent	E4440A	US41160416	01/23/2008	01/22/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/13/2010
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2008	01/04/2009
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2008	01/04/2009
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S20W5	N/A	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2008	07/04/2009
Splitter	Agilent	11636B	N/A	07/05/2008	07/04/2009
DC Power Supply	HP	6038A	2929A-07548	06/27/2007	06/26/2009
DC Power Supply	Topward	3303D	981327	10/26/2007	10/25/2009

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/22/2008	02/21/2009
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2008	11/14/2009
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/10/2008	07/09/2010
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/10/2008	07/09/2010
Hor.n antenna	SCHWAZBECK	BBHA 9120D	309	05/09/2008	05/10/2010
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-320	03/14/2008	03/13/2009
Signal Generator	R&S	SMR40	100210	01/22/2008	01/21/2010
Signal Generator	Agilent	E4438C	MY45093613	05/22/2008	05/21/2009
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2008	11/29/2009
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2008	01/04/2009
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2008	07/04/2009
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/13/2010
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2008	01/04/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2008	01/04/2009
3m Site	SGS	966 chamber	N/A	11/08/2008	11/09/2009

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99% OCCUPIED BANDWIDTH EQUIPMENT List

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2008	04/18/2010
Spectrum Analyzer	Agilent	E4440A	US41160416	01/23/2008	01/22/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/13/2010
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2008	07/04/2009
Splitter	Agilent	11636B	N/A	07/05/2008	07/04/2009
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OUT OF BAND EMISSION EQUIPMENT List					
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Spectrum Analyzer	Agilent	E4440A	US41160416	01/23/2008	01/22/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/13/2010
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2008	01/04/2009
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2008	01/04/2009
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2008	07/04/2009
Splitter	Agilent	11636B	N/A	07/05/2008	07/04/2009
DC Power Supply	HP	6038A	2929A-07548	06/27/2007	06/26/2009
DC Power Supply	Topward	3303D	981327	10/26/2007	10/25/2009

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FIELD STRENGTH OF SPURIOUS RADIATION EQUIPMENT List					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/22/2008	02/21/2009
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2008	11/14/2009
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-320	03/14/2008	03/13/2009
Radio Communication Analyzer	R & S	CMU200	102189	05/13/208	05/13/2010
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2008	01/04/2009
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2008	01/04/2009
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2008	11/29/2009
Pre-Amplifier	HP	8449B	3008A01973	01/05/2008	01/04/2009
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2008	01/04/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	01/05/2008	01/04/2009
3m Site	SGS	966 chamber	N/A	11/08/2008	11/09/2009

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FREQUENCY STABILITY V.S. TEMPERATURE EQUIPMENT List					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/12/2009
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
Temperature Chamber	TERCHY	MHG-120LF	911009	04/14/2008	04/13/2010
Temperature Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA0512-018	02/05/2008	02/04/2010
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	02/13/2008	02/12/2009
DC Power Supply	HP	6038A	2929A-07548	06/27/2007	06/26/2009
DC Power Supply	Topward	3303D	981327	10/26/2007	10/25/2009

FREQUENCY STABILITY V.S. VOLTAGE EQUIPMENT List					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/12/2009
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
Temperature Chamber	TERCHY	MHG-120LF	911009	04/14/2008	04/13/2010
Temperature Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA0512-018	02/05/2008	02/04/2010
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	02/13/2008	02/12/2009
DC Power Supply	HP	6038A	2929A-07548	06/27/2007	06/26/2009
DC Power Supply	Topward	3303D	981327	10/26/2007	10/25/2009

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AC POWER LINE CONDUCTED EMISSION EQUIPMENT List					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/16/2008	09/15/2009
LISN	Rolf-Heine	NNB-2/16Z	99012	02/18/2008	02/17/2009
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/18/2008	02/17/2009
Coaxial Cables	N/A	WK CE Cable	N/A	10/30/2008	10/29/2009

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2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel)

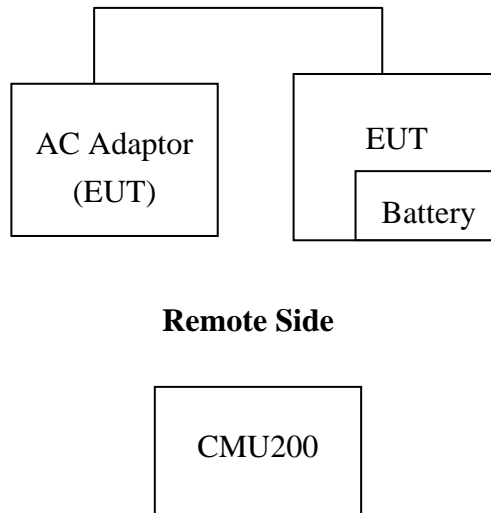


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	102189	N/A	Un-shielded

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§24.232(c)(d)	RF Peak Power Output, Maximum Power Reduction	Compliant
§2.1046(a) §22.913(a) §24.232(c)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	Compliant
§2.1055(a)(1)(b)	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(1)(2)	Frequency Stability vs. Voltage	Compliant
§15.107;§15.207	AC Power Line Conducted Emission	Compliant

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

EUT staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for GSM with power adaptor. The worst-case of E1 position for GSM 850 band, H position for PCS 1900 band were reported.

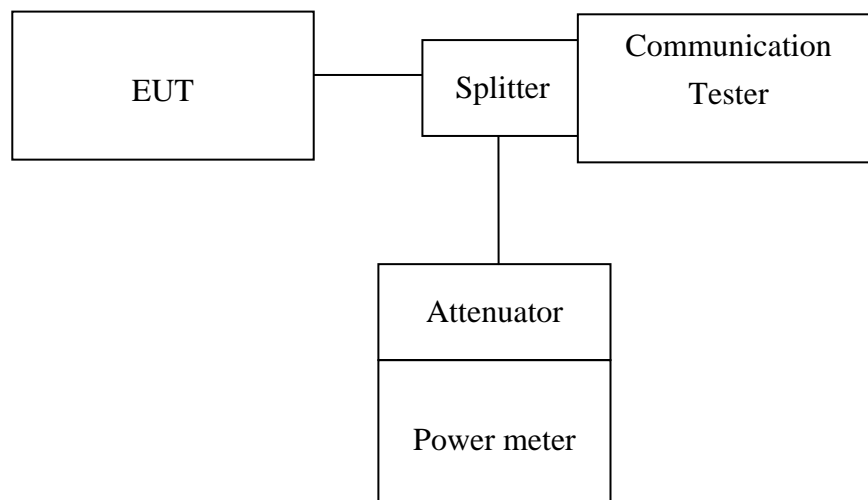
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5. RF PEAK POWER OUTPUT/ MAXIMUM POWER REDUCTION MEASUREMENT

5.1 Standard Applicable

FCC 24.232(d) Peak Power Measurement, FCC 24.232(c) Maximum Power Reduction.

5.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

5.3 Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. was used for EUT and Base station setting.

5.4 Measurement Equipment Used:

Refer to section 2.4 in this report

5.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	Path Loss (dB)	Peak Power (1TS) (dBm)	Peak Power (2TS) (dBm)	Peak Power (3TS) (dBm)	Peak Power (4TS) (dBm)
GSM 850 (Class 8,10,12)	824.20	128	0.5	32.61	32.32	31.91	31.50
	836.60	190	0.5	33.12	32.80	32.42	32.11
	848.80	251	0.5	33.41	33.11	32.81	32.40

EUT Mode	Frequency (MHz)	CH	Path Loss (dB)	Peak Power (1TS) (dBm)	Peak Power (2TS) (dBm)	Peak Power (3TS) (dBm)	Peak Power (4TS) (dBm)
EDGE 850 (Class 8,10,12)	824.20	128	0.5	26.34	25.84	25.43	25.15
	836.60	190	0.5	26.74	26.13	25.80	25.56
	848.80	251	0.5	27.05	26.87	25.60	26.33

EUT Mode	Frequency (MHz)	CH	Path Loss (dB)	Peak Power (1TS) (dBm)	Peak Power (2TS) (dBm)	Peak Power (3TS) (dBm)	Peak Power (4TS) (dBm)
GSM 1900 (Class 8,10,12)	1850.20	512	0.5	30.82	30.21	29.71	29.32
	1880.00	661	0.5	30.62	29.82	29.41	28.61
	1909.80	810	0.5	30.46	29.52	29.22	28.31

EUT Mode	Frequency (MHz)	CH	Path Loss (dB)	Peak Power (1TS) (dBm)	Peak Power (2TS) (dBm)	Peak Power (3TS) (dBm)	Peak Power (4TS) (dBm)
EDGE 1900 (Class 8,10,12)	1850.20	512	0.5	25.65	24.88	24.63	24.34
	1880.00	661	0.5	25.83	25.25	24.87	24.59
	1909.80	810	0.5	26.14	25.55	25.29	24.92

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Maximum Power Reduction: PCS1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	30.8	27.8	25.4	23.8	21.8	19.8	17.8	15.8	13.9
PCL	9	10	11	12	13	14	15	16	17
Output power (dBm)	11.8	9.8	7.9	5.8	3.9	1.8	-0.2		

Maximum Power Reduction: EDGE1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	26.07	26.1	26.12	24	21.9	20	18	16	13.7
PCL	9	10	11	12	13	14	15	16	17
Output power (dBm)	12.1	10.2	8	6.1	3.9	1.8	0.2		

Note: The EUT output power was controlled by simulator. Set Communication Tester CMU200 PCL as above, and get the mobile phone output power reading.

6. ERP, EIRP MEASUREMENT

6.1 Standard Applicable

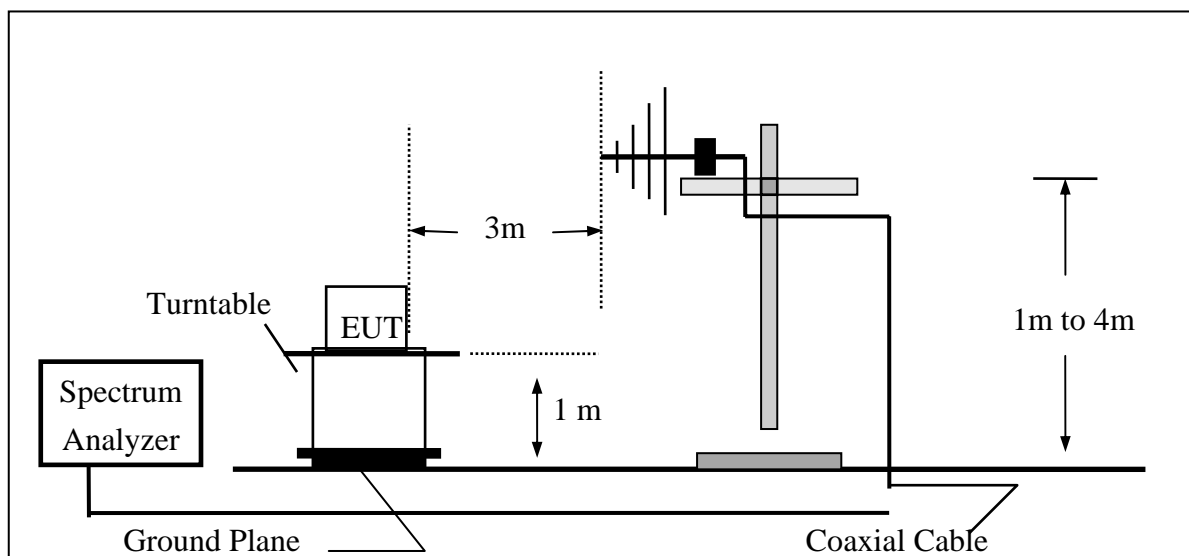
According to FCC §2.1046

FCC 22.913(a) Mobile station are limited to 7W ERP.

FCC 24.232(c) Mobile station are limited to 2W EIRP.

6.2 Test SET-UP (Block Diagram of Configuration)

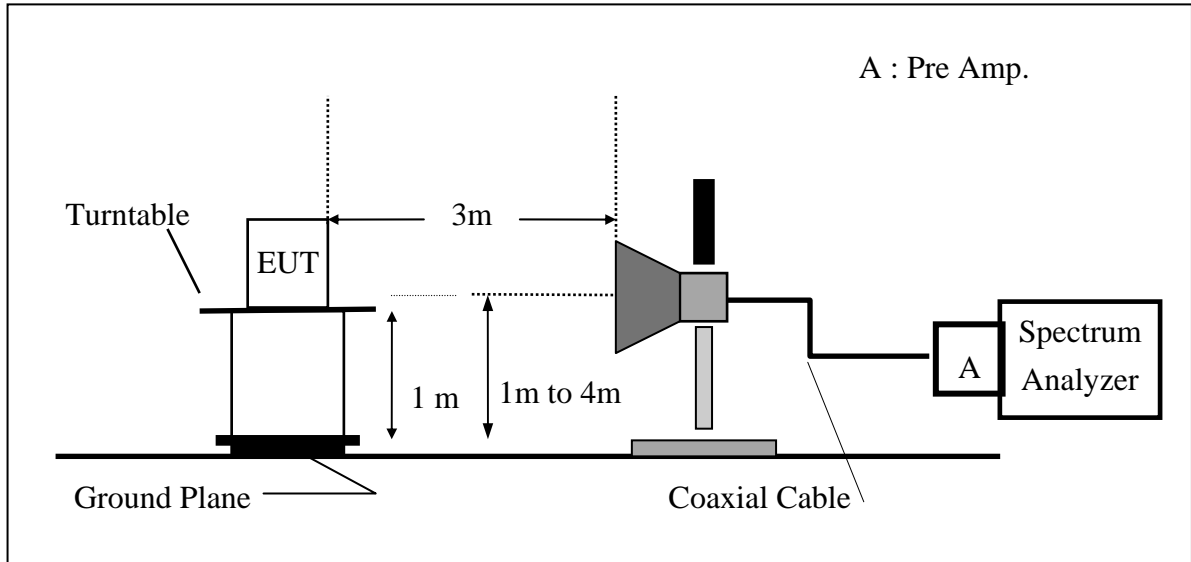
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



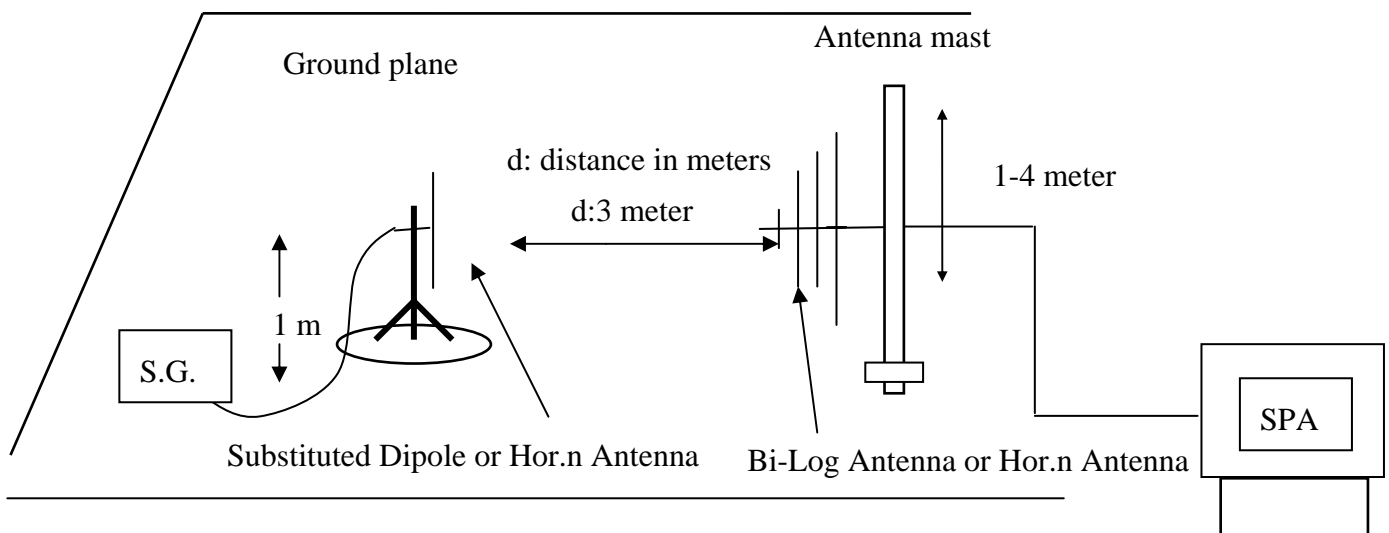
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(B) Radiated Emission Test Set-UP Frequency Over. 1 GHz



(C) Substituted Method Test Set-UP



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6.3 Measurement Procedure

The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement, the EUT was in communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824.2 –848.80MHz were measured using a substitution method. The EUT was replaced by a dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by an horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

6.4 Measurement Equipment Used:

Refer to section 2.4 in this report

6.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GSM 850	824.20	128	H	V	117.28	30.89	-7.87	3.62	19.39	38.45
				H	118.51	32.24	-7.87	3.62	20.74	38.45
			E1	V	125.35	38.96	-7.87	3.62	27.46	38.45
				H	116.20	29.93	-7.87	3.62	18.43	38.45
			E2	V	115.96	29.57	-7.87	3.62	18.07	38.45
				H	124.60	38.33	-7.87	3.62	26.83	38.45
	836.60	190	H	V	115.01	28.76	-7.88	3.65	17.23	38.45
				H	117.49	31.26	-7.88	3.65	19.73	38.45
			E1	V	125.55	39.30	-7.88	3.65	27.77	38.45
				H	116.84	30.61	-7.88	3.65	19.08	38.45
			E2	V	115.47	29.22	-7.88	3.65	17.69	38.45
				H	124.70	38.47	-7.88	3.65	26.94	38.45
	848.80	251	H	V	116.70	30.58	-7.88	3.68	19.02	38.45
				H	121.10	34.91	-7.88	3.68	23.35	38.45
			E1	V	126.84	40.72	-7.88	3.68	29.16	38.45
				H	117.46	31.27	-7.88	3.68	19.71	38.45
			E2	V	116.40	30.28	-7.88	3.68	18.72	38.45
				H	126.48	40.29	-7.88	3.68	28.73	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency

Below 1GHz was RBW=300 KHz, VBW=1000KHz,

Above 1GHz was RBW= 1MHz , VBW= 3MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
PCS 1900	1850.20	512	H	V	116.96	12.57	9.90	5.56	16.91	33.00
				H	129.22	25.04	9.90	5.56	29.38	33.00
			E1	V	126.36	21.97	9.90	5.56	26.31	33.00
				H	123.40	19.22	9.90	5.56	23.56	33.00
			E2	V	127.15	22.76	9.90	5.56	27.10	33.00
				H	125.46	21.28	9.90	5.84	25.34	33.00
	1880.00	661	H	V	116.24	11.88	9.99	5.61	16.26	33.00
				H	128.75	24.61	9.99	5.61	28.98	33.00
			E1	V	126.12	21.76	9.99	5.61	26.14	33.00
				H	122.62	18.48	9.99	5.61	22.85	33.00
			E2	V	126.77	22.41	9.99	5.61	26.79	33.00
				H	124.86	20.72	9.99	5.61	25.09	33.00
	1909.80	810	H	V	118.09	13.76	10.08	5.66	18.18	33.00
				H	126.57	22.46	10.08	5.66	26.88	33.00
			E1	V	125.81	21.48	10.08	5.66	25.90	33.00
				H	123.38	19.27	10.08	5.66	23.69	33.00
			E2	V	127.21	22.88	10.08	5.66	27.30	33.00
				H	124.91	20.80	10.08	5.66	25.22	33.00

Remark :

(1) The RBW,VBW of SPA for frequency

Below 1GHz was RBW=300 KHz, VBW=1000KHz,

Above 1GHz was RBW= 1MHz , VBW= 3MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
EDGE 850	824.20	128	H	V	113.31	26.95	-7.88	3.63	15.44	38.45
				H	114.75	28.49	-7.88	3.63	16.99	38.45
			E1	V	119.58	33.22	-7.88	3.63	21.71	38.45
				H	108.46	22.20	-7.88	3.63	10.70	38.45
			E2	V	106.92	20.56	-7.88	3.63	9.05	38.45
				H	119.24	32.98	-7.88	3.63	21.48	38.45
	836.60	190	H	V	111.87	25.61	-7.88	3.65	14.08	38.45
				H	112.33	26.10	-7.88	3.65	14.57	38.45
			E1	V	120.04	33.78	-7.88	3.65	22.25	38.45
				H	107.66	21.43	-7.88	3.65	9.90	38.45
			E2	V	107.09	20.83	-7.88	3.65	9.30	38.45
				H	120.75	34.52	-7.88	3.65	22.99	38.45
	848.80	251	H	V	111.35	25.20	-7.88	3.67	13.65	38.45
				H	114.78	28.58	-7.88	3.67	17.03	38.45
			E1	V	121.18	35.02	-7.88	3.67	23.47	38.45
				H	111.17	24.97	-7.88	3.67	13.42	38.45
			E2	V	107.79	21.64	-7.88	3.67	10.09	38.45
				H	121.90	35.70	-7.88	3.67	24.15	38.45

Remark :

(1) The RBW,VBW of SPA for frequency

Below 1GHz was RBW=300 KHz, VBW=1000KHz,

Above 1GHz was RBW= 1MHz , VBW= 3MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
EDGE 1900	1850.20	512	H	V	114.56	10.18	9.90	5.56	14.51	33.00
				H	123.57	19.39	9.90	5.56	23.73	33.00
			E1	V	122.15	17.77	9.90	5.56	22.10	33.00
				H	118.69	14.51	9.90	5.56	18.85	33.00
			E2	V	123.30	18.92	9.90	5.56	23.25	33.00
				H	122.68	18.50	9.90	5.84	22.56	33.00
	1880.00	661	H	V	114.98	10.62	9.99	5.61	15.00	33.00
				H	123.11	18.97	9.99	5.61	23.34	33.00
			E1	V	122.05	17.66	9.90	5.56	22.00	33.00
				H	118.77	14.63	9.99	5.61	19.00	33.00
			E2	V	122.68	18.32	9.99	5.61	22.70	33.00
				H	121.33	17.19	9.99	5.61	21.56	33.00
	1909.80	810	H	V	114.19	9.86	10.07	5.66	14.27	33.00
				H	124.25	20.14	10.07	5.66	24.55	33.00
			E1	V	121.62	17.29	10.07	5.66	21.70	33.00
				H	118.33	14.22	10.07	5.66	18.63	33.00
			E2	V	122.46	18.13	10.07	5.66	22.54	33.00
				H	120.87	16.76	10.07	5.66	21.17	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency

Below 1GHz was RBW=300 KHz, VBW=1000KHz,

Above 1GHz was RBW= 1MHz , VBW= 3MHz

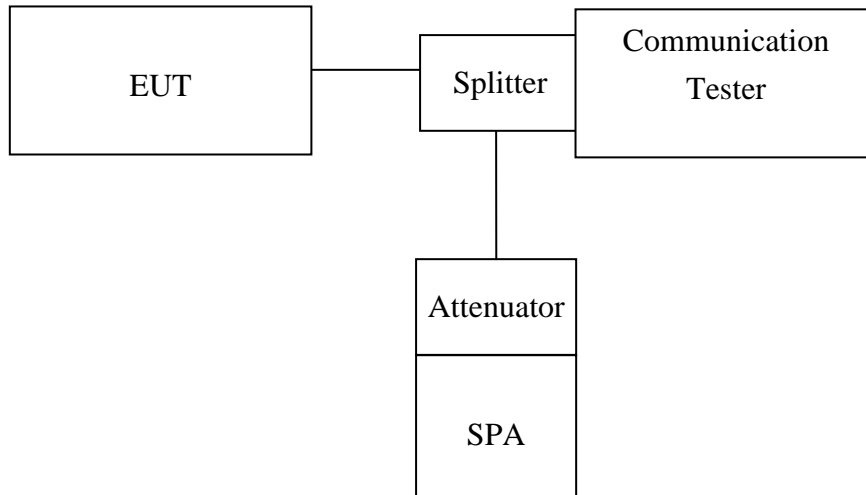
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7. 99% OCCUPIED BANDWIDTH MEASUREMENT

7.1 Standard Applicable

According to §FCC 2.1049.

7.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

7.3 Measurement Procedure

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW (10/30KHz) was set to about 1% of emission BW, VBW= 3 times RBW(30/100KHz), -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

7.4 Measurement Equipment Used:

Refer to section 2.4 in this report

7.5 Measurement Result:

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.246
	836.60	190	0.246
	848.80	251	0.246

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
PCS 1900	1850.20	512	0.246
	1880.00	661	0.246
	1909.80	810	0.244

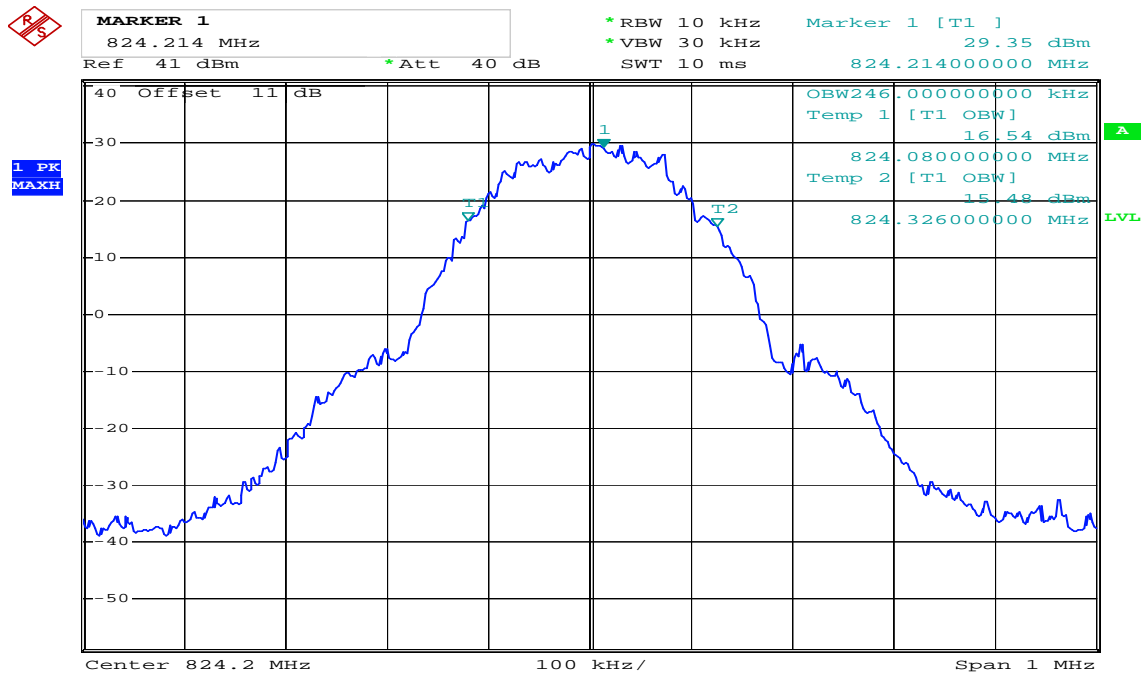
EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.242
	836.60	190	0.244
	848.80	251	0.248

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.244
	1880.00	661	0.248
	1909.80	810	0.246

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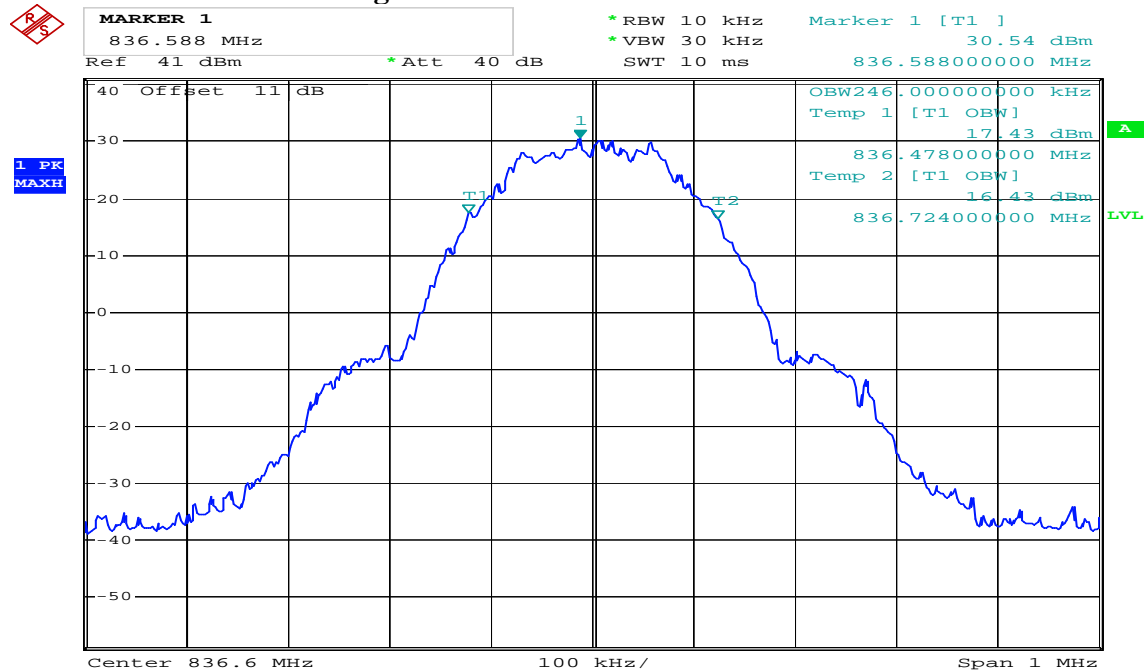
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Figure 7-1: GSM 850 Channel Low



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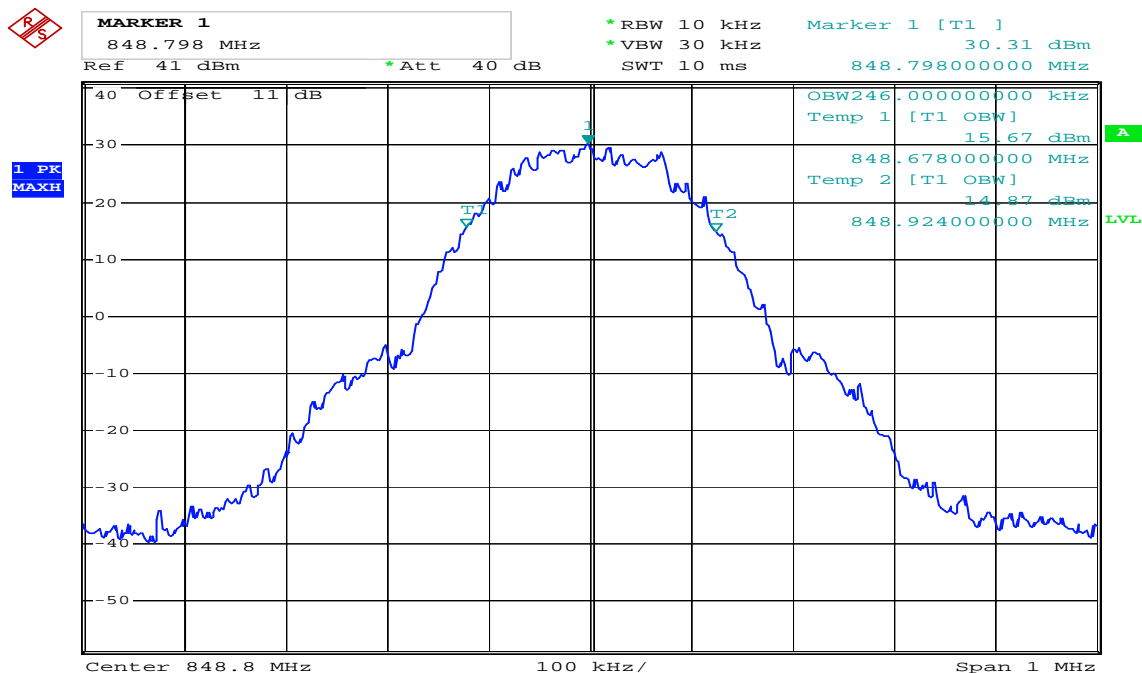
Figure 7-2 GSM 850 Channel Mid



Comment: 1
Date: 17.NOV.2008 15:44:33

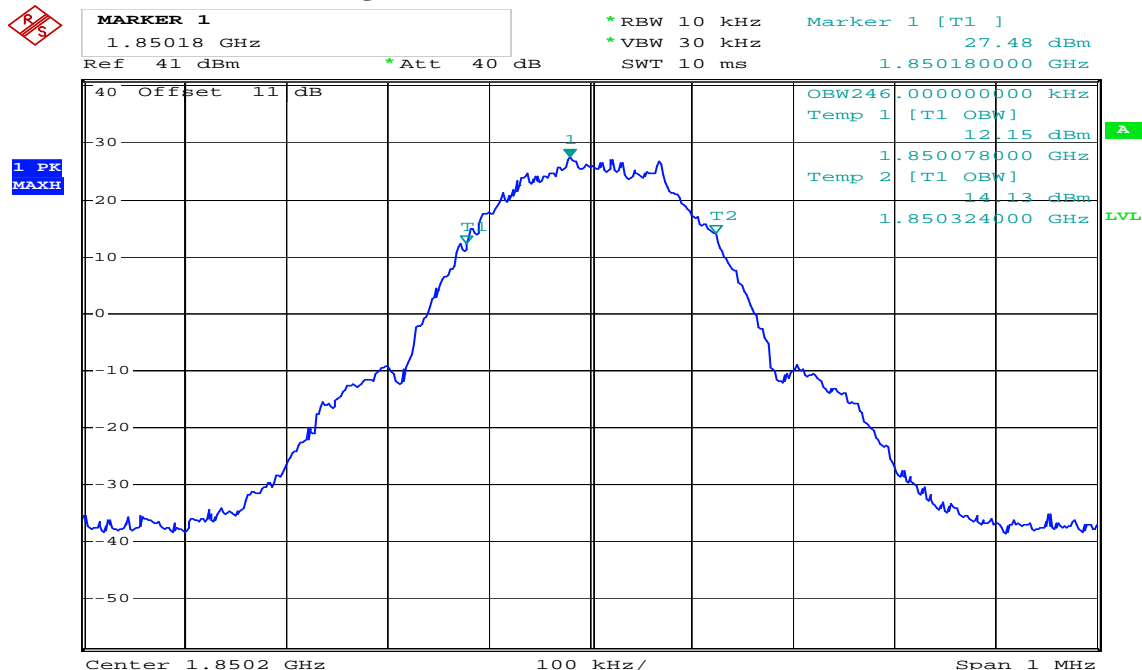
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Figure 7-3: GSM 850 Channel High



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Date: 17.NOV.2008 15:45:14

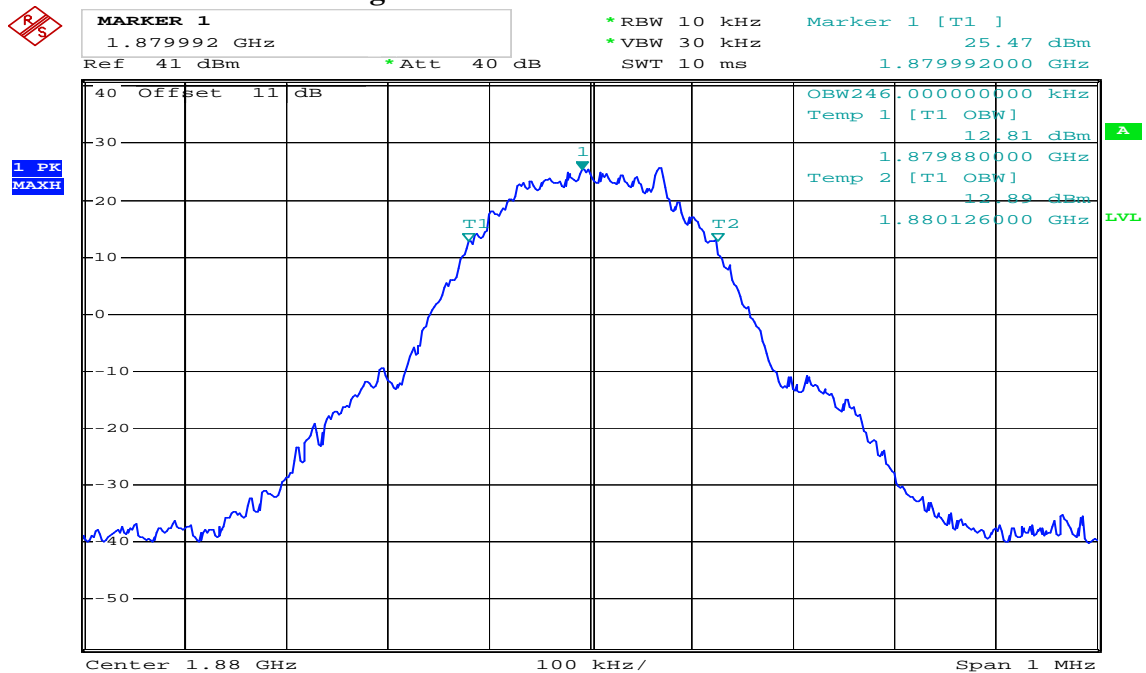
Figure 7-4: PCS 1900 Channel Low



Comment: 1
Date: 17.NOV.2008 15:40:38

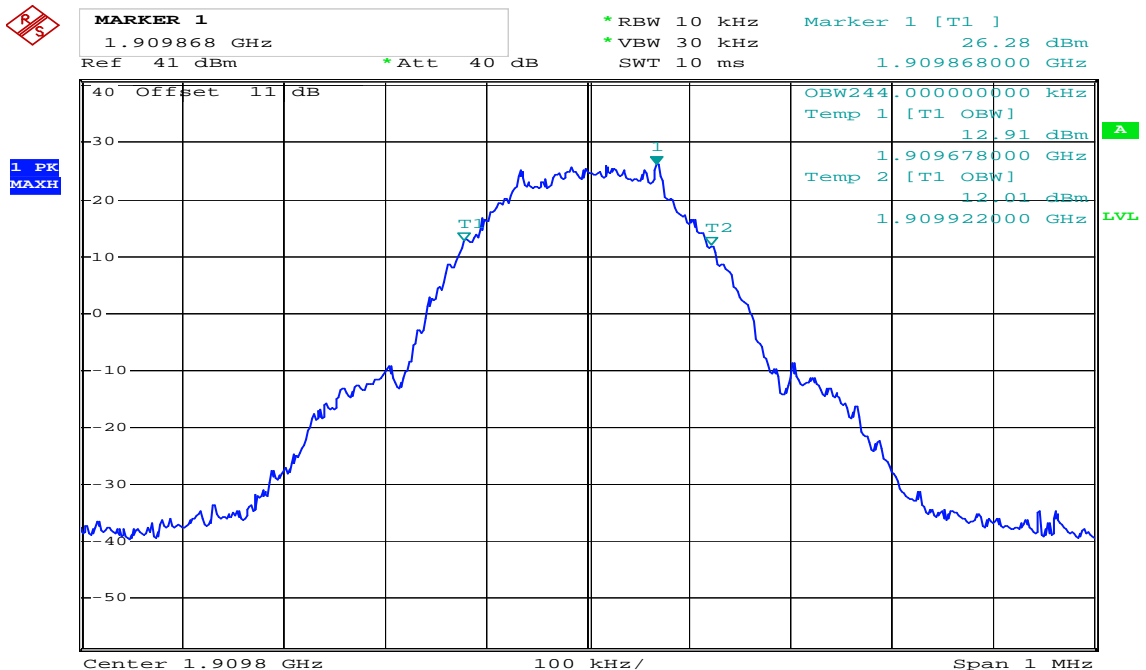
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Figure 7-5 PCS 1900 Channel Mid



Comment: 1
Date: 17.NOV.2008 15:41:19

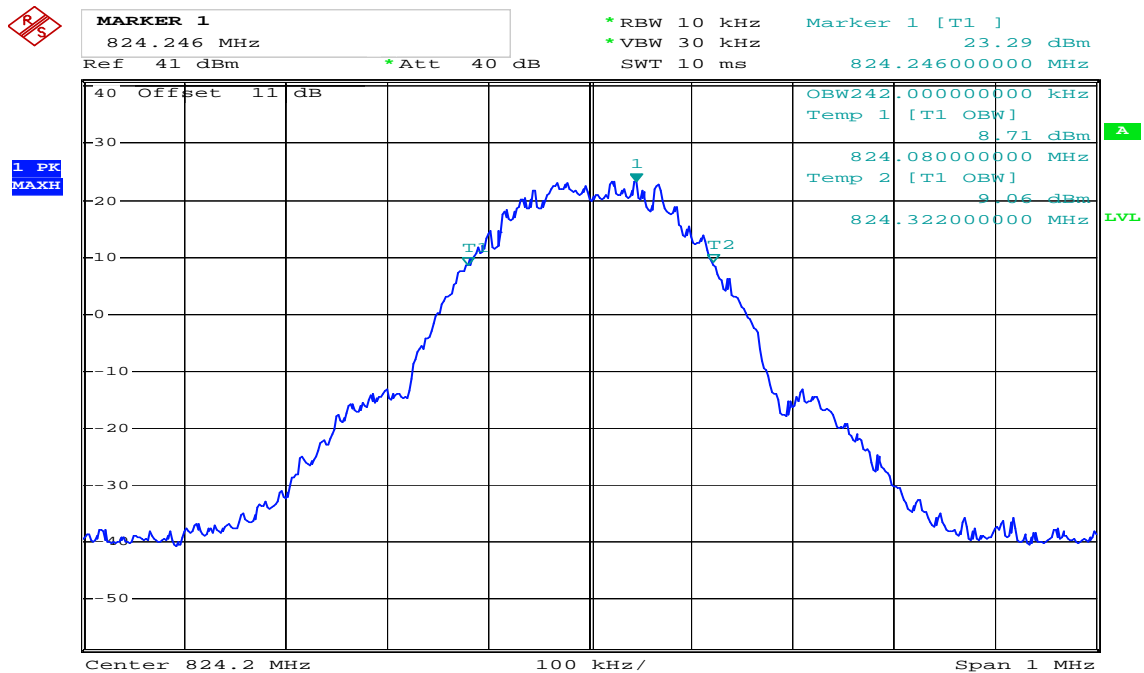
Figure 7-6: PCS 1900 Channel High



Comment: 1
Date: 17.NOV.2008 15:42:05

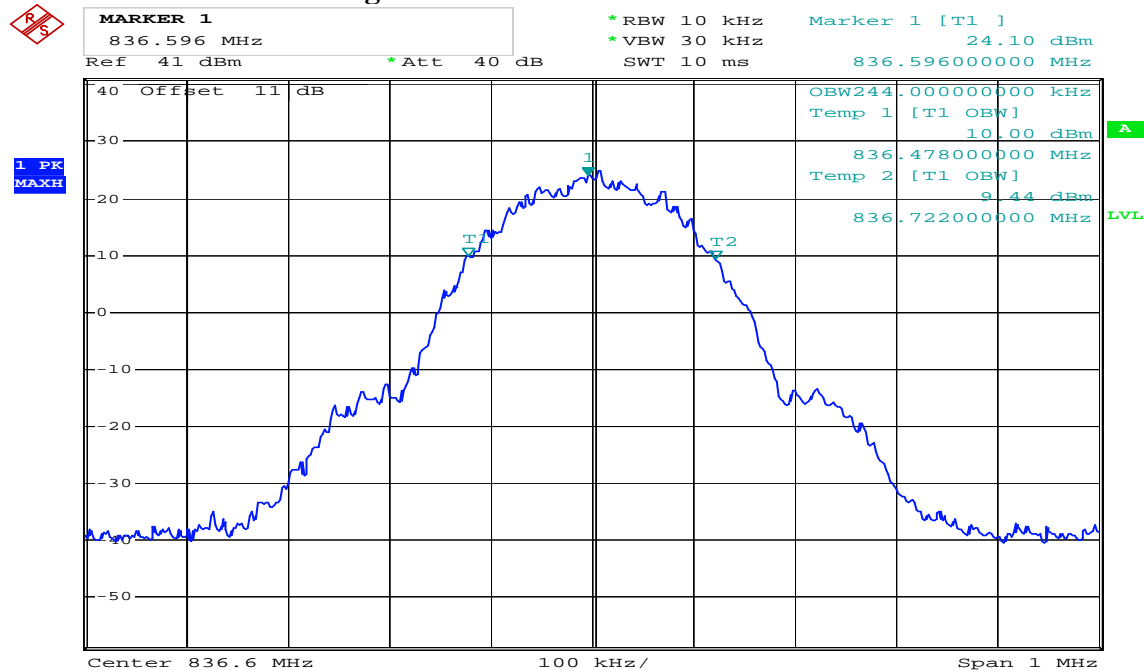
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Figure 7-7: EDGE 850 Channel Low



Comment: 1
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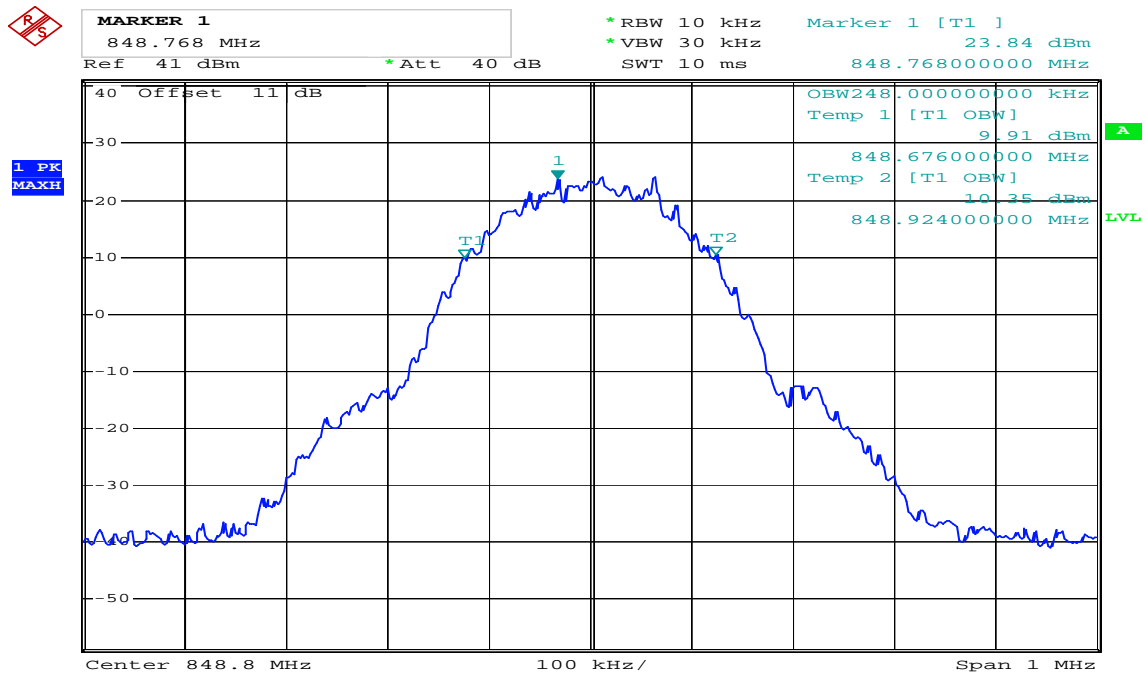
Figure 7-8 EDGE 850 Channel Mid



Comment: 1
Date: 17.NOV.2008 16:55:30

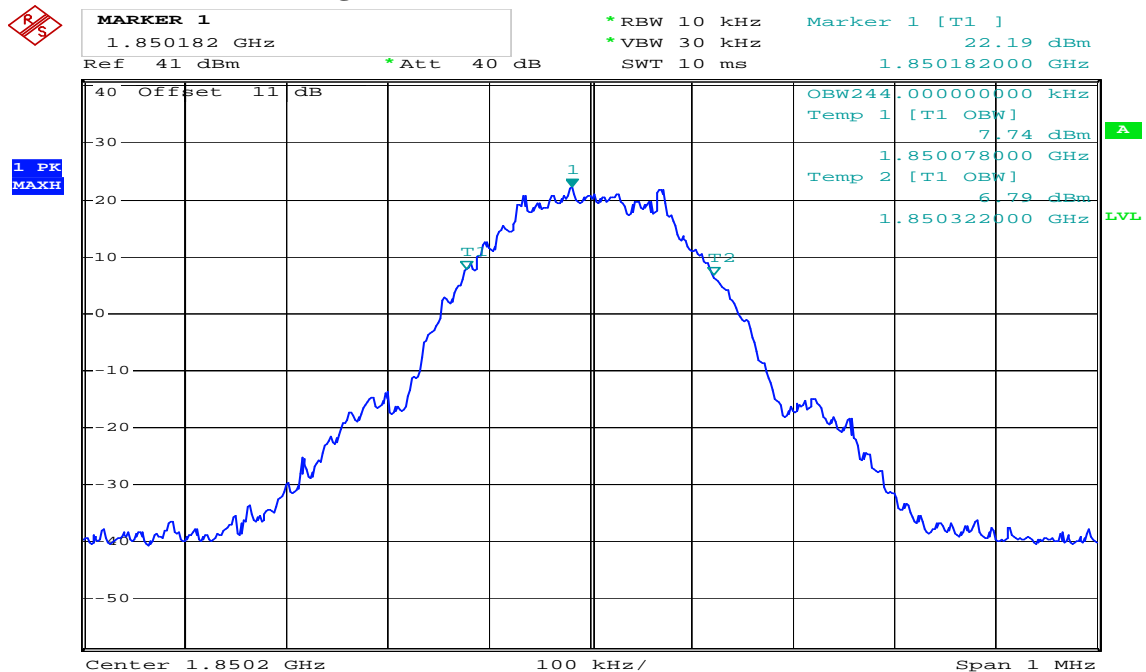
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Figure 7-9: EDGE 850 Channel High



Comment: 1
Date: 17.NOV.2008 16:57:00

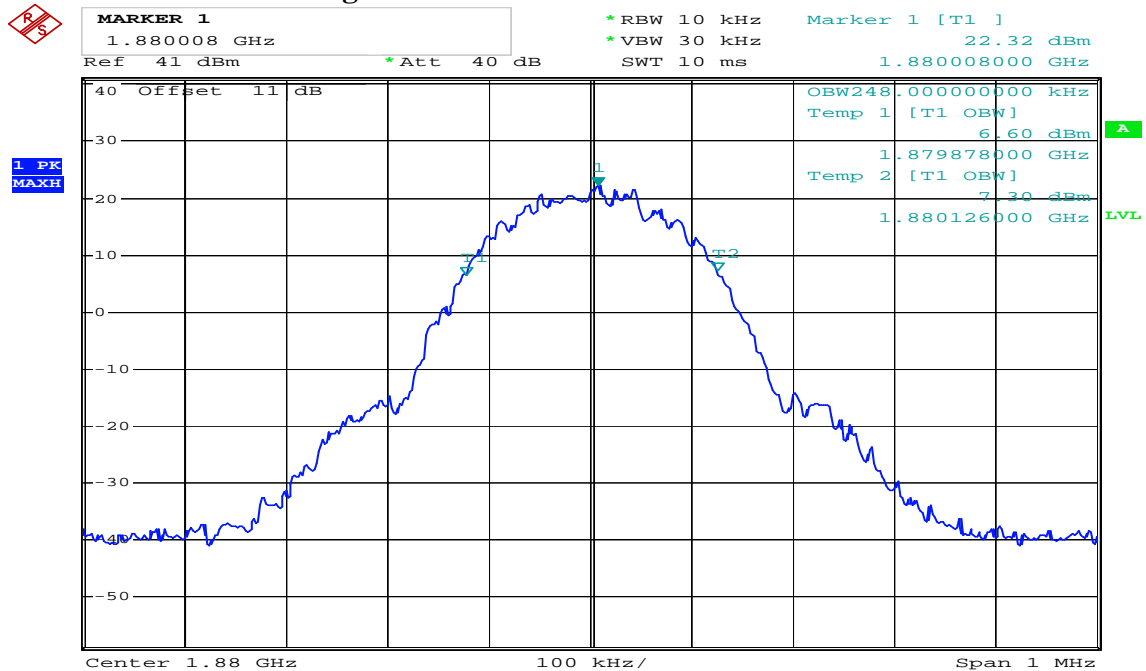
Figure 7-10: EDGE 1900 Channel Low



Comment: 1
Date: 17.NOV.2008 16:59:06

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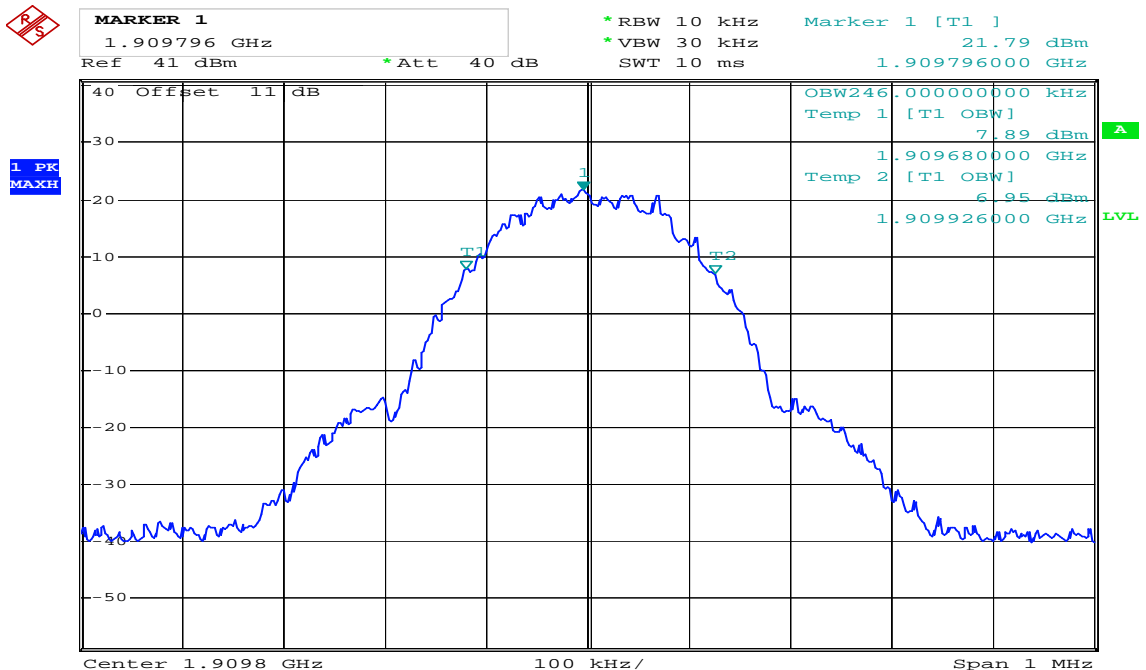
Figure 7-11: EDGE 1900 Channel Mid



Comment: 1

Date: 17.NOV.2008 16:59:53

Figure 7-12: EDGE 1900 Channel High



Comment: 1

Date: 17.NOV.2008 17:00:50

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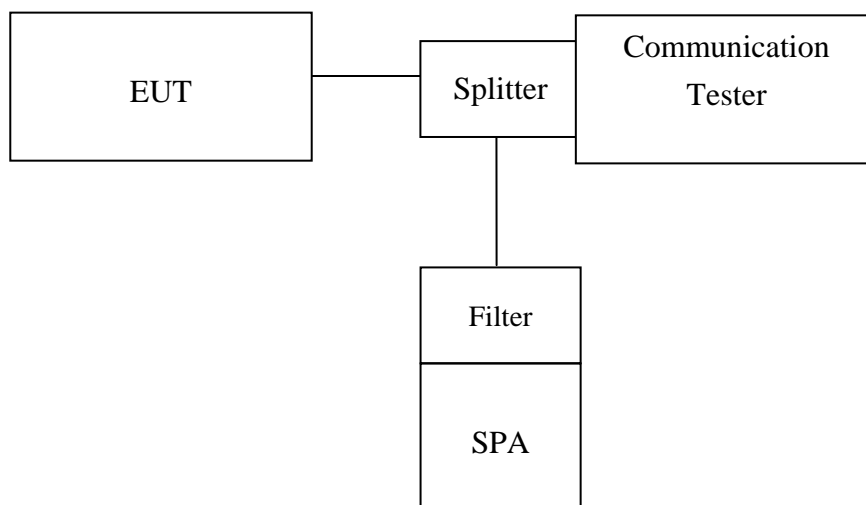
8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

According to FCC §2.1051.

FCC §22.917(a), §24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

8.2 Test SET-UP



Note: Measurement setup for testing on Antenna connector

8.3 Measurement Procedure

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10th harmonic.
Limit = -13dBm

Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

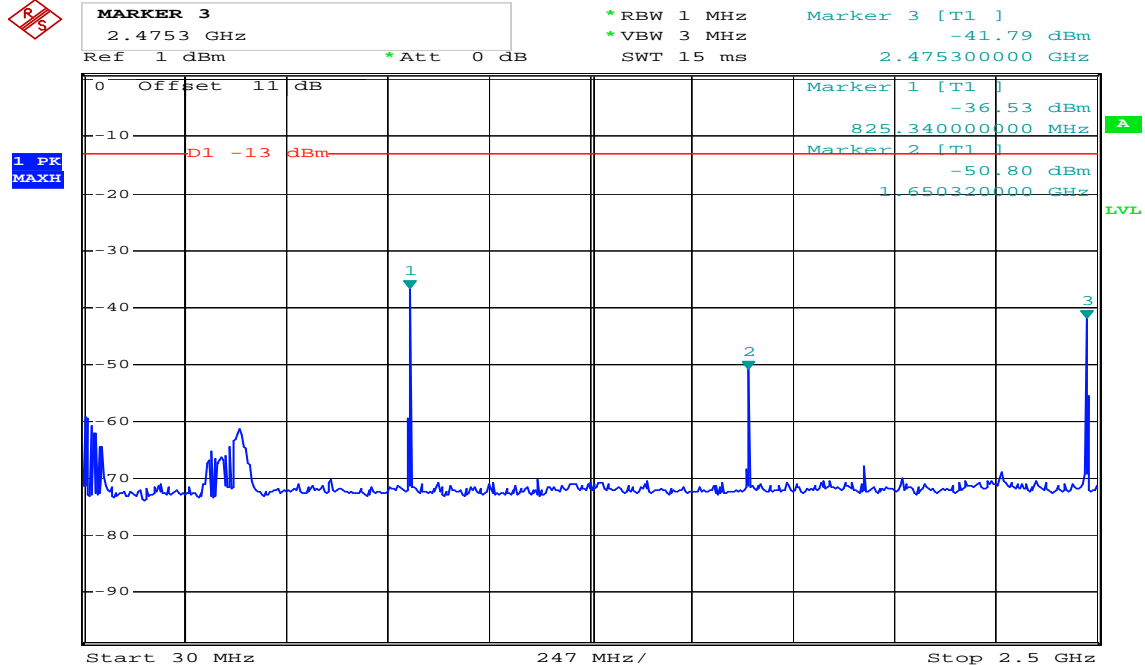
8.4 Measurement Equipment Used:

Refer to section 2.4 in this report

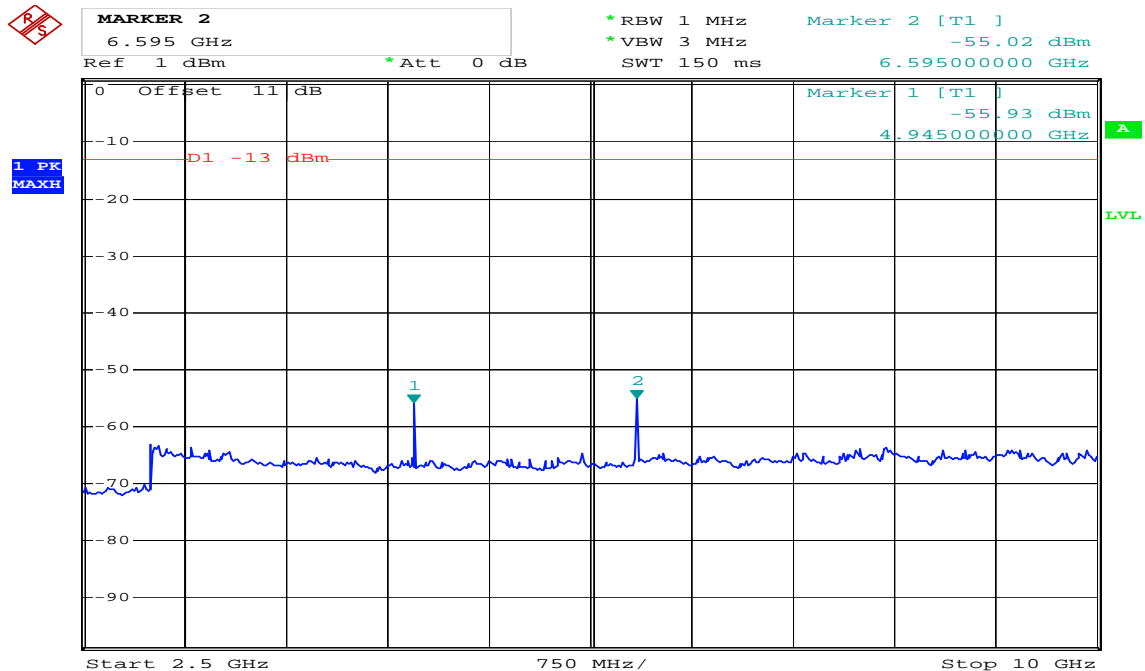
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8.5 Measurement Result

Figure 8-1: Out of Band emission at antenna terminals–GSM 850 Channel Lowest



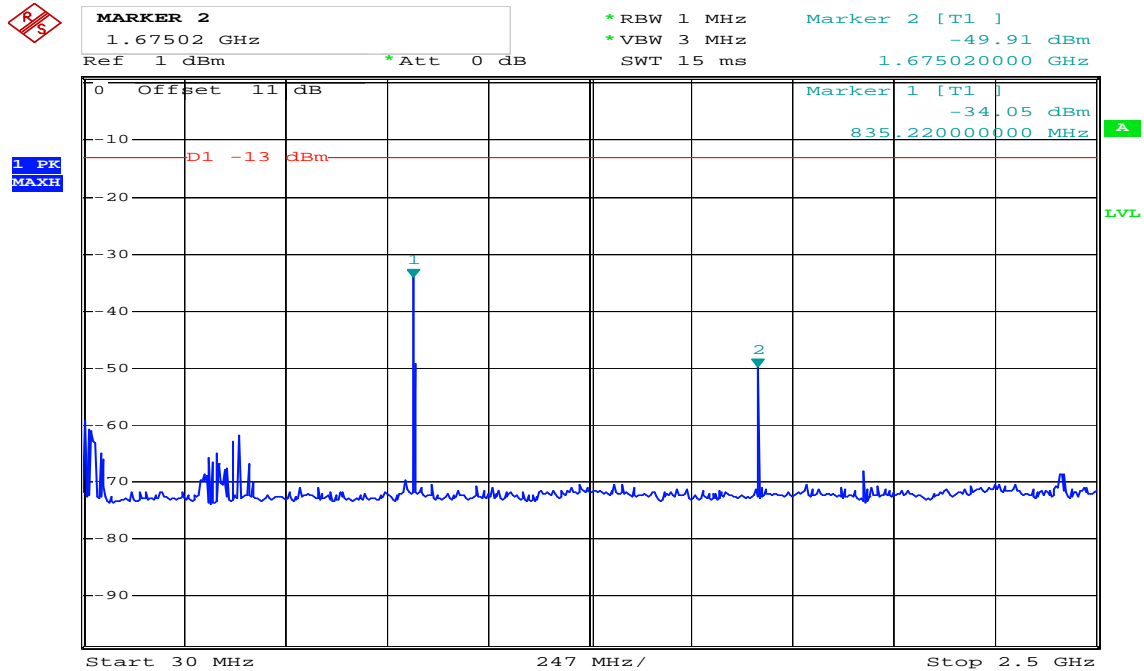
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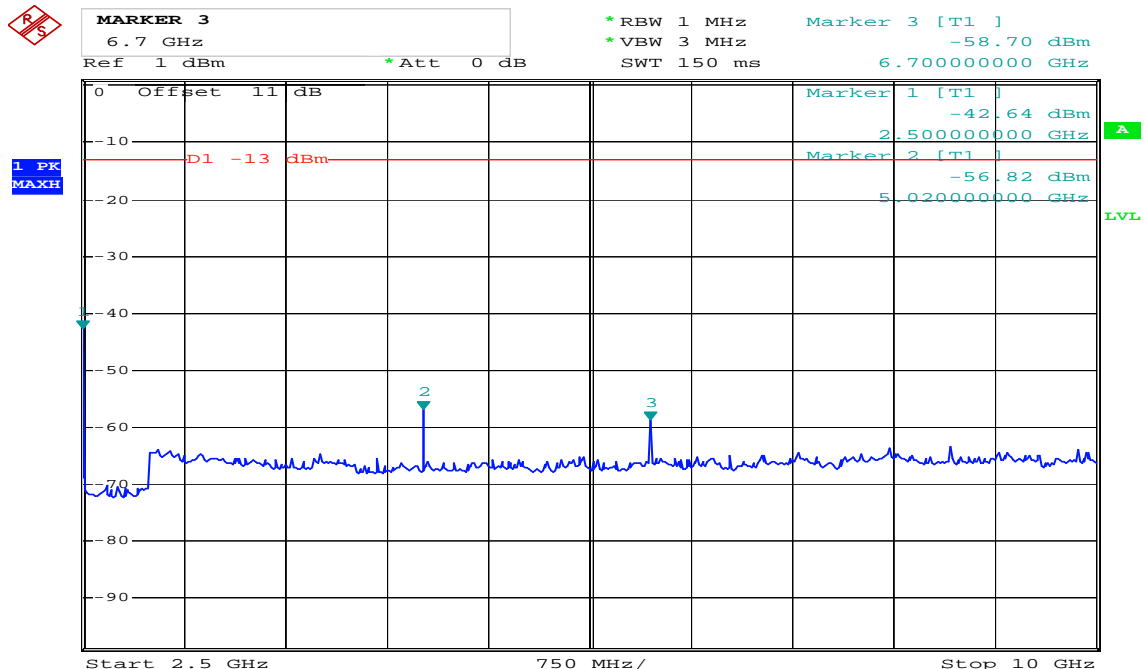
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Figure 8-2: Out of Band emission at antenna terminals –GSM 850 Channel Mid



Comment: 1

Date: 17.NOV.2008 17:13:32

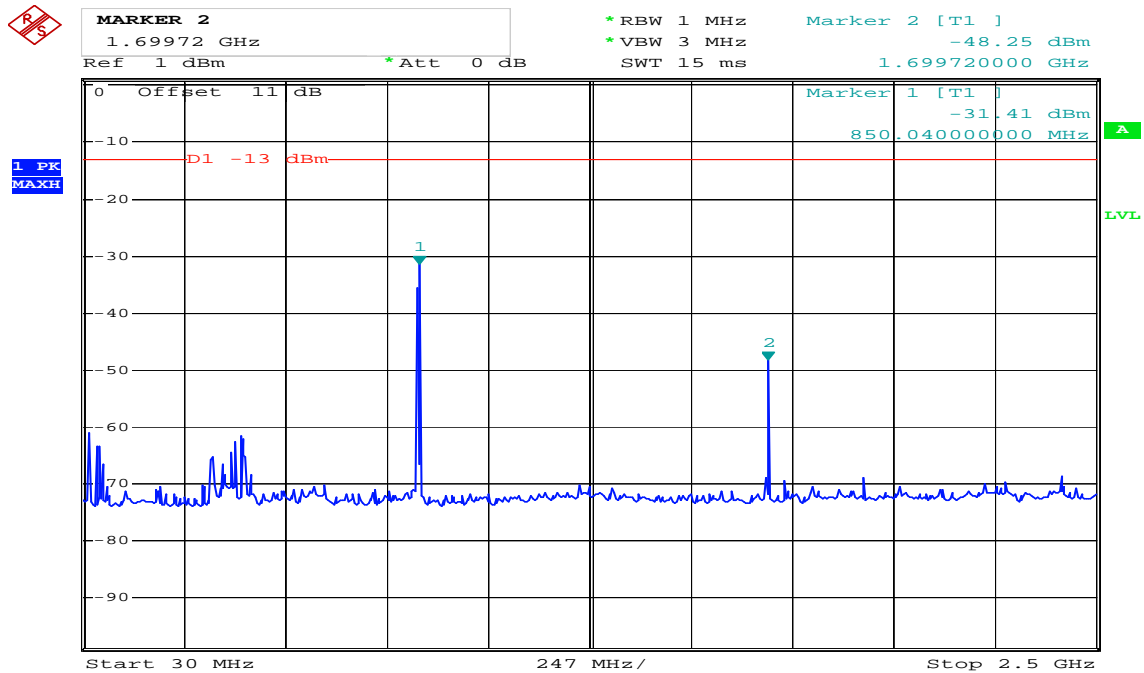


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Date: 17.NOV.2008 17:17:08

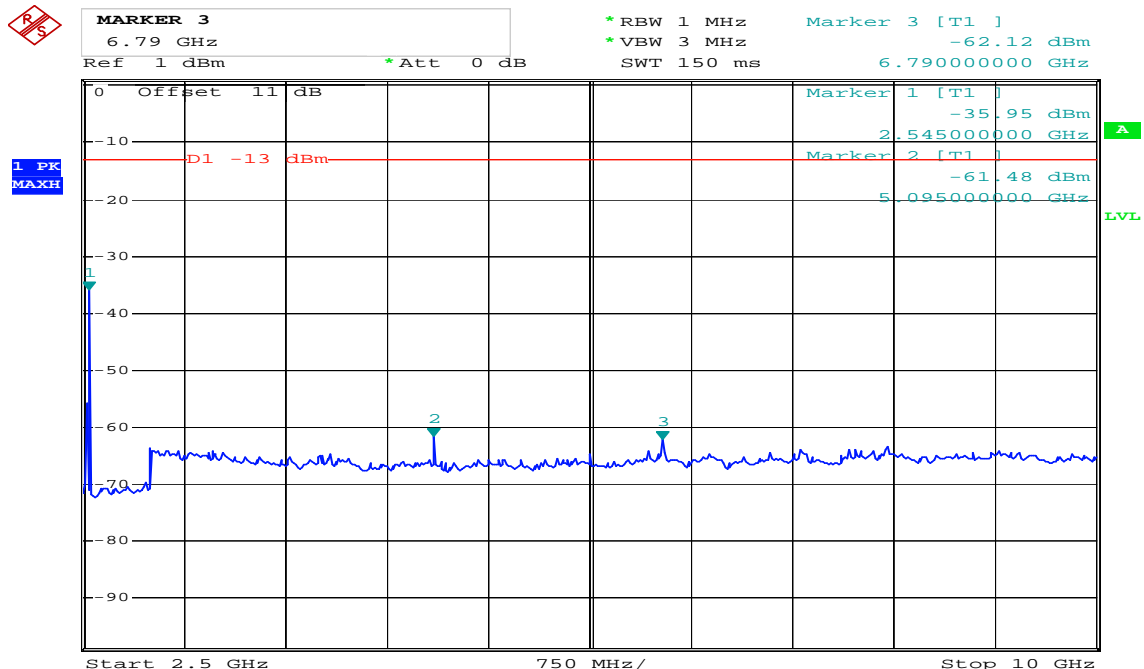
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Figure 8-3: Out of Band emission at antenna terminals–GSM 850 Channel Highest



Comment: 1

Date: 17.NOV.2008 17:15:00

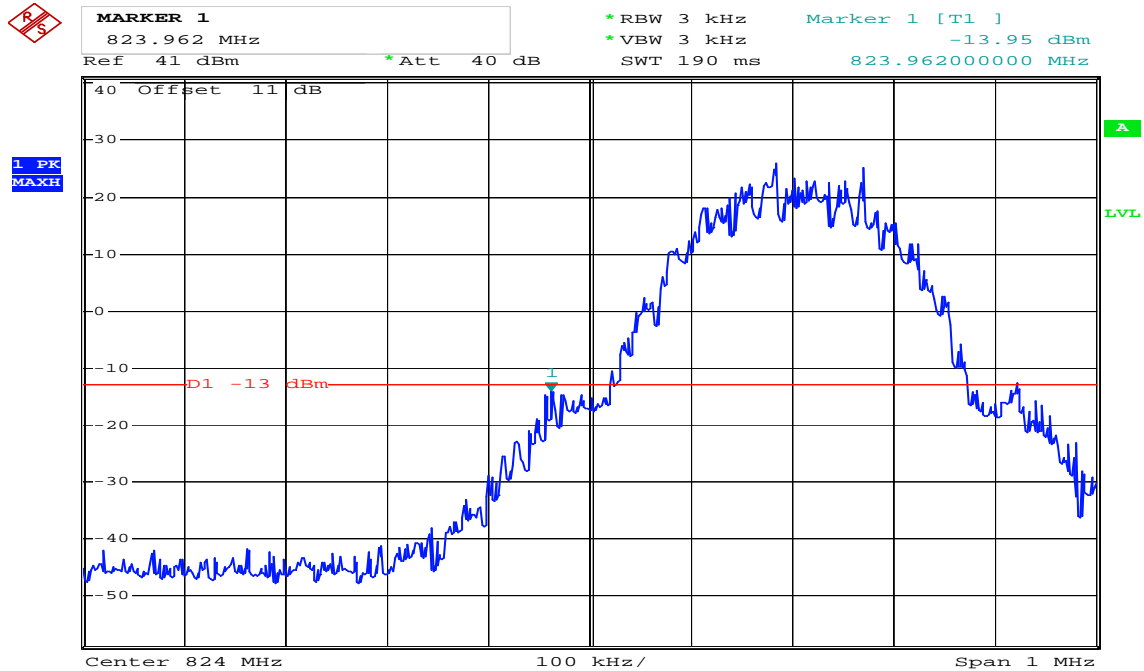


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Date: 17.NOV.2008 17:16:18

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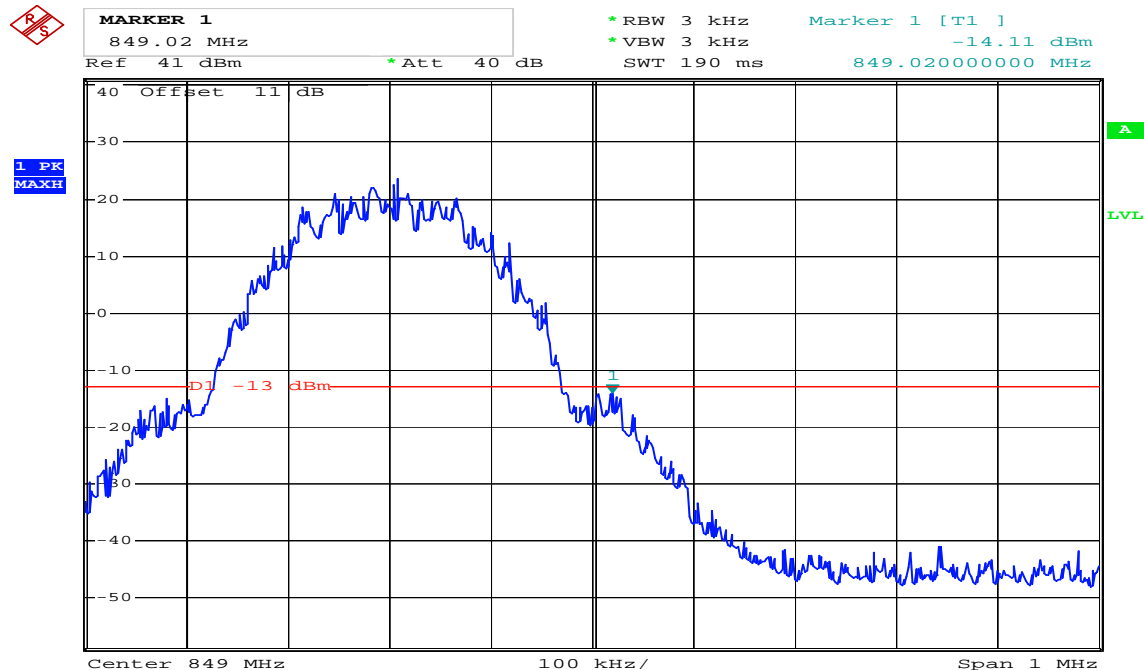
Figure 8-4: Band edge emission at antenna terminals –GSM 850 Channel Lowest



Comment: 1

Date: 17.NOV.2008 16:22:16

Figure 8-5: Band edge emission at antenna terminals –GSM 850 Channel Highest

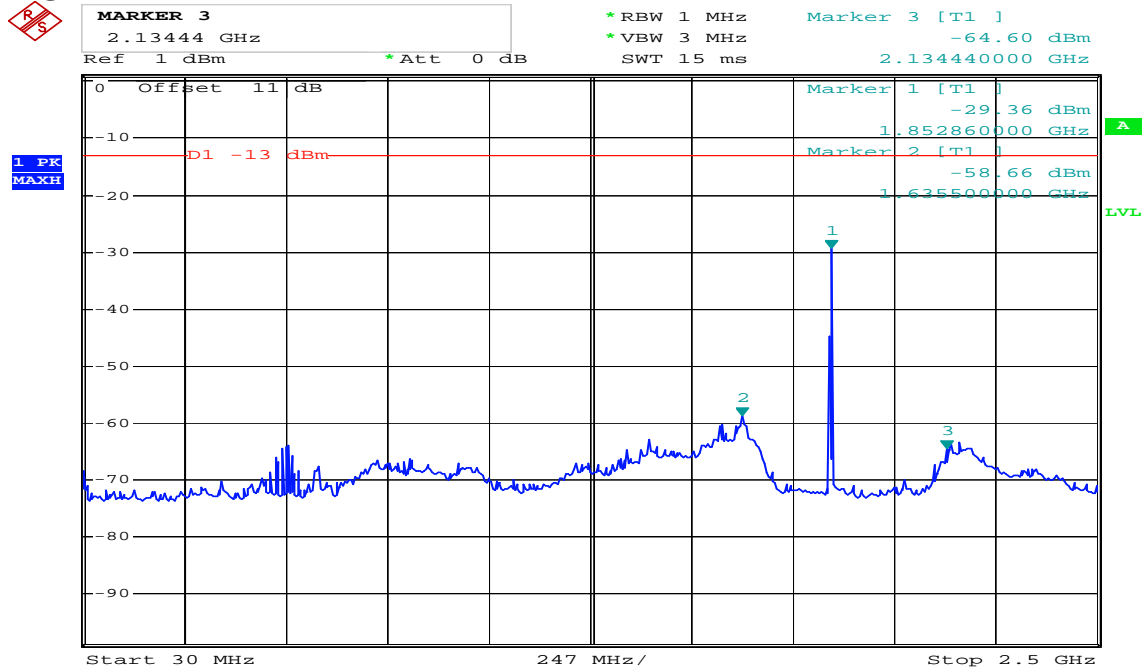


Comment: 1

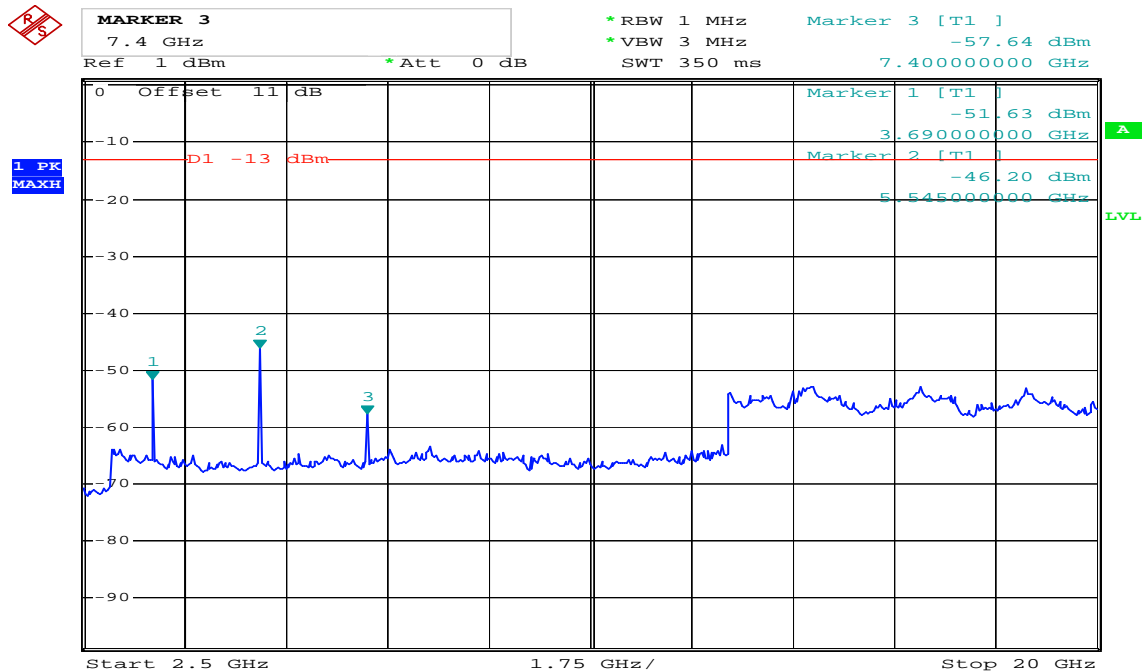
Date: 17.NOV.2008 16:26:30

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Figure 8-6: Out of Band emission at antenna terminals-PCS 1900 Channel Lowest



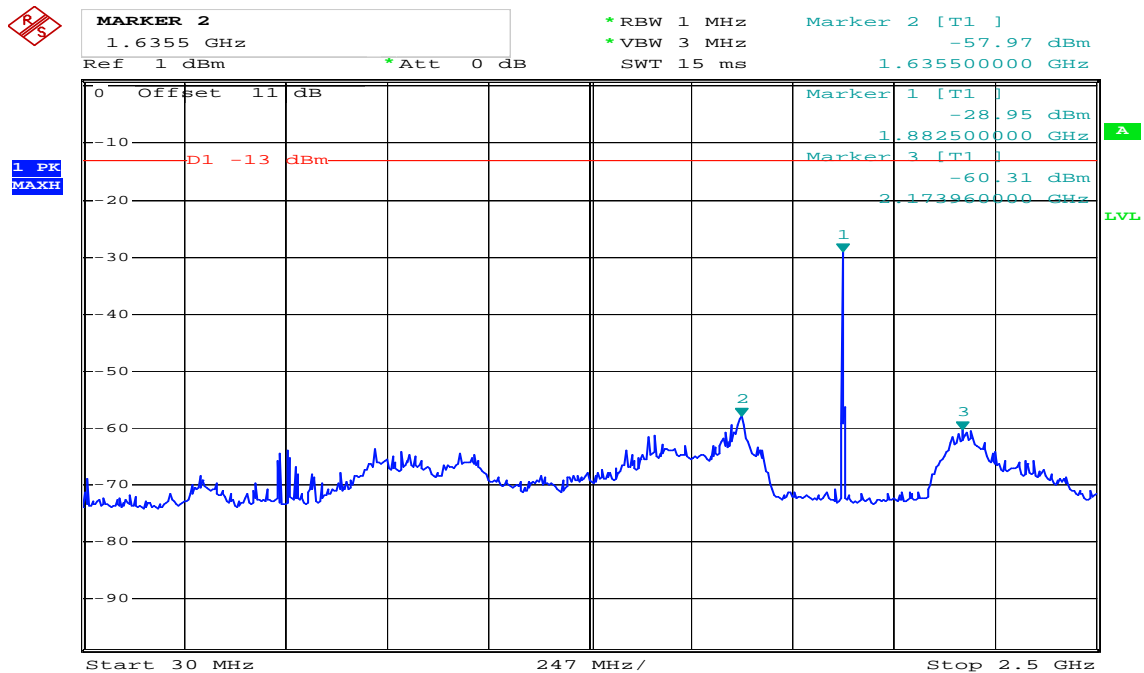
Comment: 1
Date: 17.NOV.2008 17:19:41



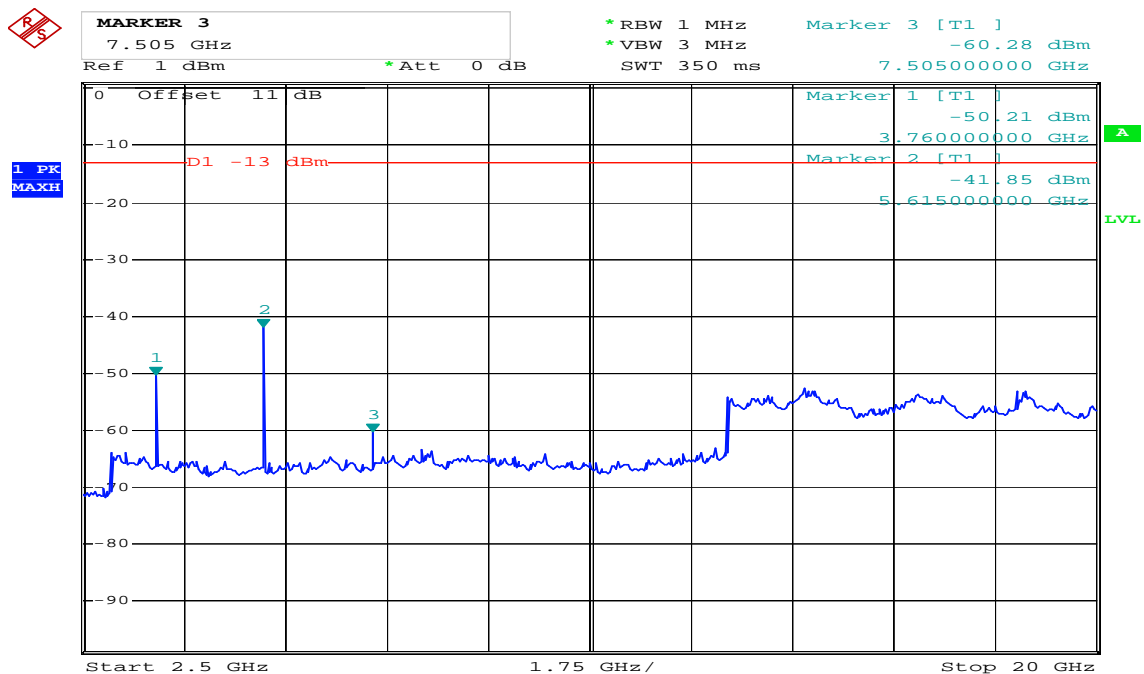
Comment: 1
Date: 17.NOV.2008 17:21:03

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Figure 8-7: Out of Band emission at antenna terminals –PCS 1900 Channel Mid



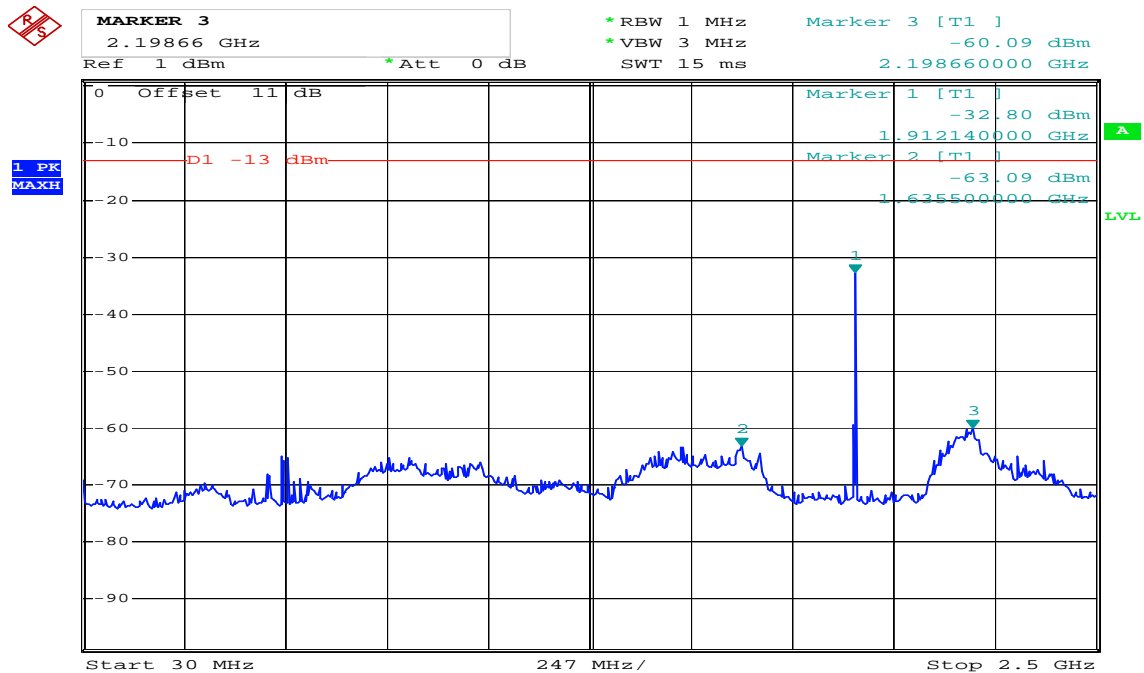
Comment: 1
Date: 17.NOV.2008 17:21:57



Comment: 1
Date: 17.NOV.2008 17:22:37

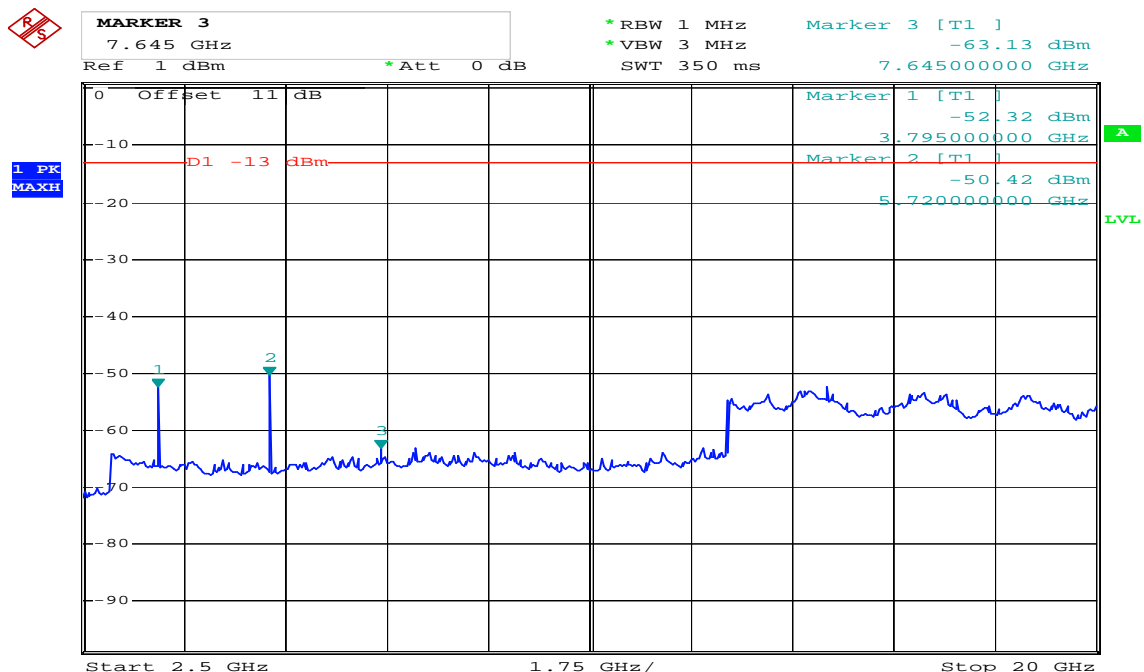
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Figure 8-8: Out of Band emission at antenna terminals–PCS 1900 Channel Highest



Comment: 1

Date: 17.NOV.2008 17:23:22

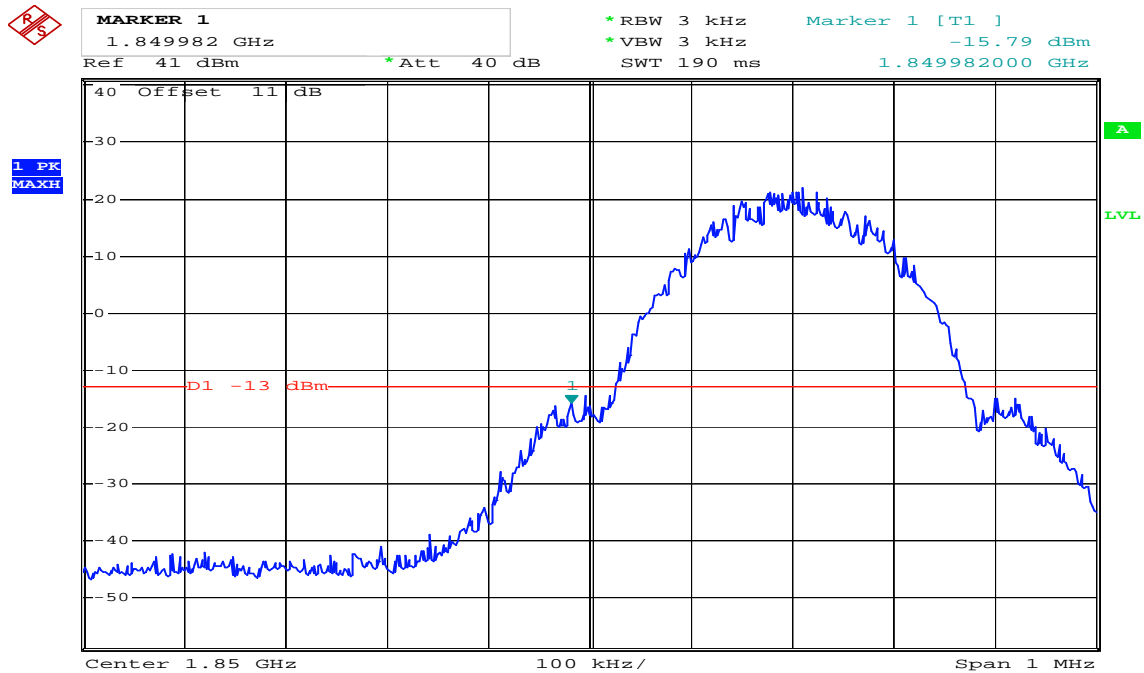


Comment: 1

Date: 17.NOV.2008 17:24:07

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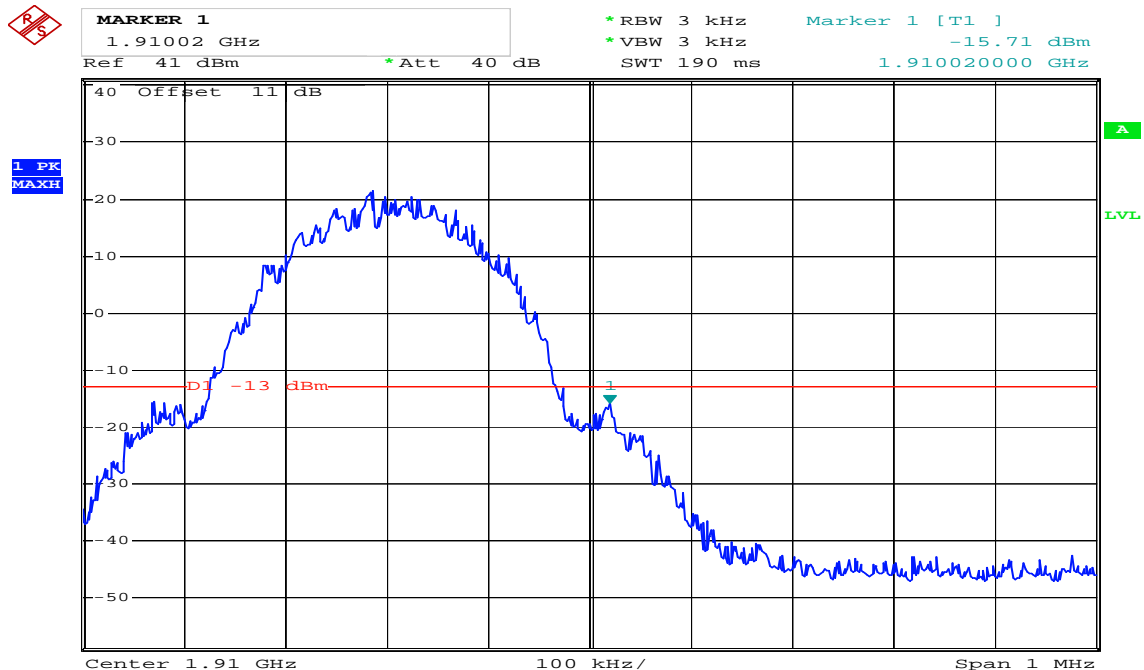
Figure 8-9: Band edge emission at antenna terminals –PCS 1900 Channel Lowest



Comment: 1

Date: 17.NOV.2008 16:20:42

Figure 8-10: Band edge emission at antenna terminals –PCS 1900 Channel Highest



Comment: 1

Date: 17.NOV.2008 16:16:34

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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

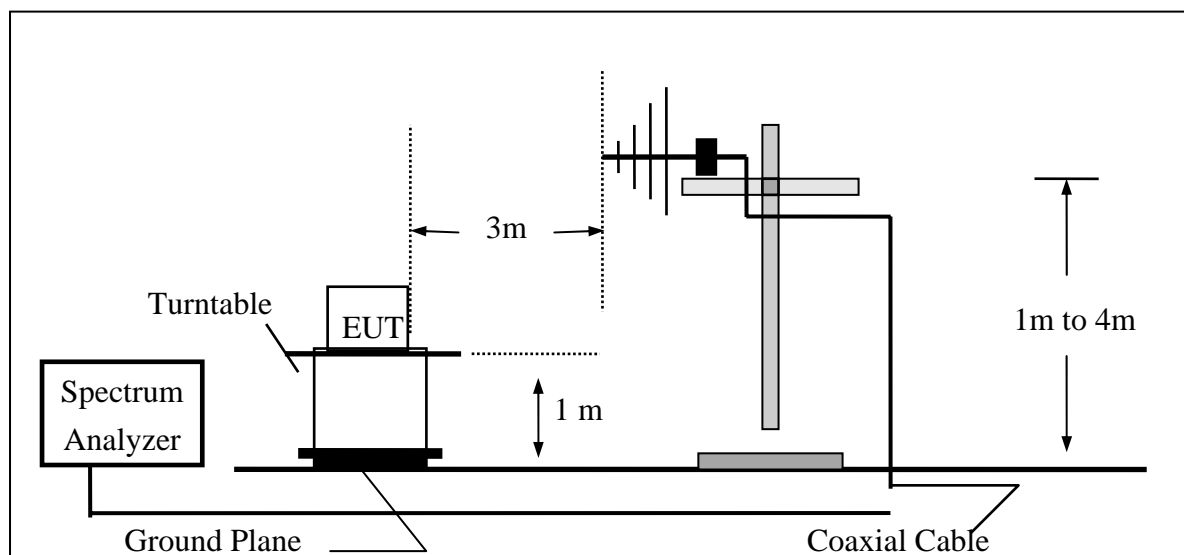
9.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

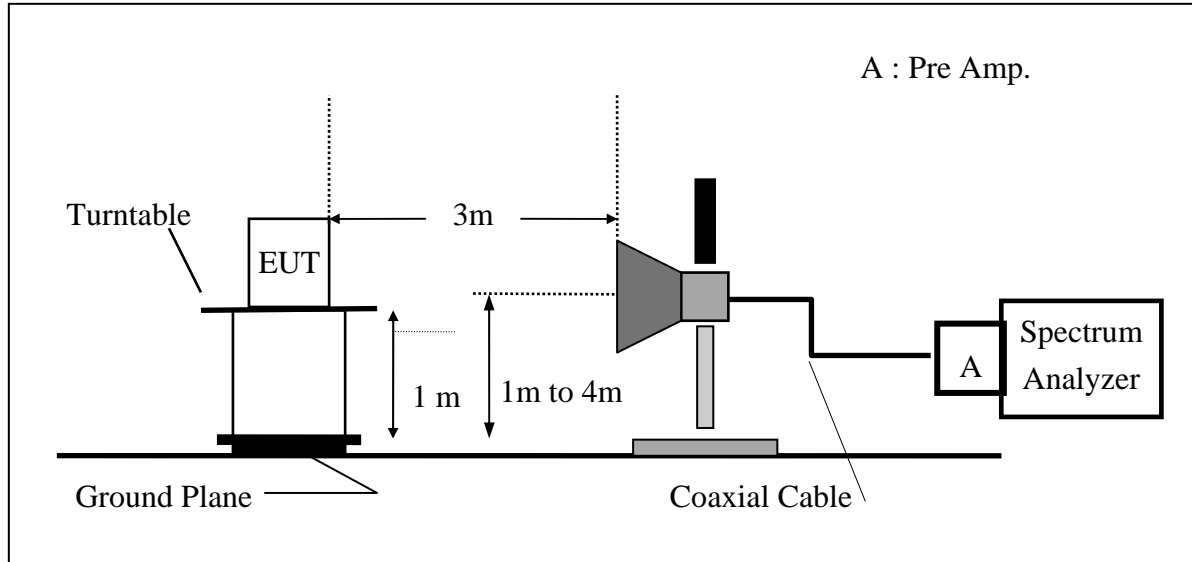
9.2 EUT Setup (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz

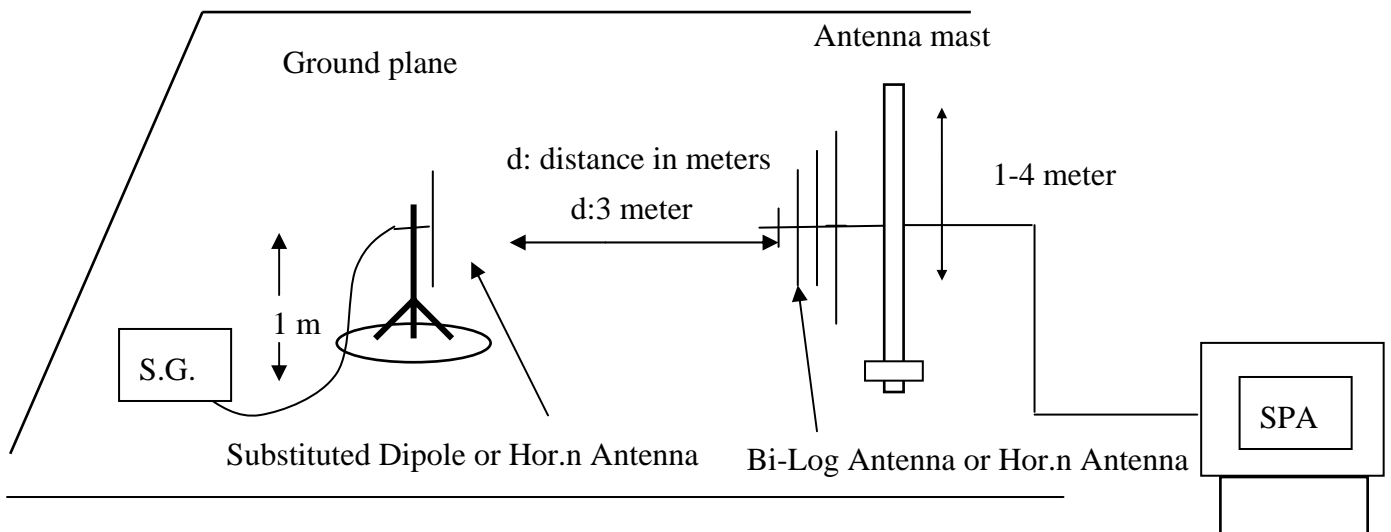


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(B) Radiated Emission Test Set-UP Frequency Over. 1 GHz



(C) Substituted Method Test Set-UP



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9.3 Measurement Procedure

The EUT was placed on a non-conductive, The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission were identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dBi)} - \text{Cable Loss (dB)}$$

9.4 Measurement Equipment Used:

Refer to section 2.4 in this report

9.5 Measurement Result

Refer to attach tabular data sheets.

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Low E1 Mode	Test Date:	Nov. 27, 2008
Fundamental Frequency	: 824.20 MHz	Test By:	Arno
Temperature	: 25	Pol:	Ver.
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
43.58	47.63	V	-56.03	-1.92	0.98	-58.92	-13.00	-45.92
53.28	51.15	V	-57.26	-0.55	1.11	-58.92	-13.00	-45.92
92.08	46.83	V	-56.10	-7.75	1.29	-65.14	-13.00	-52.14
114.39	38.09	V	-62.50	-7.77	1.43	-71.70	-13.00	-58.70
126.03	42.17	V	-57.34	-7.78	1.48	-66.60	-13.00	-53.60
824.00	68.34	V	-18.05	-7.87	3.62	-29.55	-13.00	-16.55
1648.40	57.53	V	-47.05	9.29	5.23	-42.99	-13.00	-29.99
2472.60	48.28	V	-52.73	10.08	6.53	-49.18	-13.00	-36.18
3296.80	---	V		12.17	7.26		-13.00	
4121.00	---	V		12.61	8.33		-13.00	
4945.20	---	V		12.65	9.19		-13.00	
5769.40	---	V		13.55	9.80		-13.00	
6593.60	---	V		12.05	10.61		-13.00	
7417.80	---	V		11.49	11.28		-13.00	
8242.00	---	V		11.48	12.26		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Low E1 Mode

Test Date: Nov. 27, 2008

Fundamental Frequency : 824.20 MHz

Test By: Arno

Temperature : 25

Pol: Hor.

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
33.88	47.96	H	-56.74	-5.52	0.93	-63.18	-13.00	-50.18
51.34	42.50	H	-65.15	-0.58	1.12	-66.85	-13.00	-53.85
62.98	45.62	H	-65.91	-0.64	1.10	-67.65	-13.00	-54.65
92.08	46.22	H	-57.37	-7.75	1.29	-66.41	-13.00	-53.41
557.68	34.09	H	-57.47	-7.76	2.97	-68.21	-13.00	-55.21
824.00	77.37	H	-8.90	-7.87	3.62	-20.40	-13.00	-7.40
1648.40	52.51	H	-51.89	9.29	5.23	-47.83	-13.00	-34.83
2472.60	49.55	H	-51.36	10.08	6.53	-47.81	-13.00	-34.81
3296.80	---	H		12.17	7.26		-13.00	
4121.00	---	H		12.61	8.33		-13.00	
4945.20	---	H		12.65	9.19		-13.00	
5769.40	---	H		13.55	9.80		-13.00	
6593.60	---	H		12.05	10.61		-13.00	
7417.80	---	H		11.49	11.28		-13.00	
8242.00	---	H		11.48	12.26		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Mid E1 Mode

Test Date: Nov. 27, 2008

Fundamental Frequency : 836.60 MHz

Test By: Arno

Temperature : 25

Pol: Ver.

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
38.73	44.37	V	-57.80	-3.25	0.90	-61.94	-13.00	-48.94
47.46	41.76	V	-63.92	-1.12	1.07	-66.11	-13.00	-53.11
67.83	42.41	V	-69.28	-0.95	1.14	-71.37	-13.00	-58.37
92.08	44.14	V	-58.79	-7.75	1.29	-67.83	-13.00	-54.83
104.69	38.54	V	-62.95	-7.76	1.38	-72.09	-13.00	-59.09
1673.20	56.05	V	-48.51	9.36	5.27	-44.41	-13.00	-31.41
2509.80	52.27	V	-48.51	10.09	6.58	-45.01	-13.00	-32.01
3346.40	---	V		12.28	7.29		-13.00	
4183.00	---	V		12.62	8.40		-13.00	
5019.60	---	V		12.67	9.26		-13.00	
5856.20	---	V		13.68	9.85		-13.00	
6692.80	---	V		11.95	10.74		-13.00	
7529.40	---	V		11.45	11.35		-13.00	
8366.00	---	V		11.59	12.43		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belongs to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + \text{Antenna Gain (dB/dBi)} - \text{Cable loss (dB)}$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Mid E1 Mode

Test Date: Nov. 27, 2008

Fundamental Frequency : 836.60 MHz

Test By: Arno

Temperature : 25

Pol: Hor.

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
39.70	39.70	H	-63.19	-2.79	0.89	-66.88	-13.00	-53.88
51.34	43.00	H	-64.65	-0.58	1.12	-66.35	-13.00	-53.35
65.89	44.57	H	-67.28	-0.83	1.12	-69.23	-13.00	-56.23
92.08	44.74	H	-58.85	-7.75	1.29	-67.89	-13.00	-54.89
286.08	33.85	H	-64.24	-7.91	2.12	-74.28	-13.00	-61.28
1673.20	51.70	H	-52.68	9.36	5.27	-48.58	-13.00	-35.58
2509.80	52.89	H	-47.81	10.09	6.58	-44.31	-13.00	-31.31
3346.40	---	H		12.28	7.29		-13.00	
4183.00	---	H		12.62	8.40		-13.00	
5019.60	---	H		12.67	9.26		-13.00	
5856.20	---	H		13.68	9.85		-13.00	
6692.80	---	H		11.95	10.74		-13.00	
7529.40	---	H		11.45	11.35		-13.00	
8366.00	---	H		11.59	12.43		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH High E1 Mode

Test Date: Nov. 27, 2008

Fundamental Frequency : 848.80 MHz

Test By: Arno

Temperature : 25

Pol: Ver.

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
40.67	42.77	V	-59.38	-2.51	0.91	-62.80	-13.00	-49.80
51.34	43.47	V	-64.11	-0.58	1.12	-65.81	-13.00	-52.81
92.08	44.49	V	-58.44	-7.75	1.29	-67.48	-13.00	-54.48
104.69	41.13	V	-60.36	-7.76	1.38	-69.50	-13.00	-56.50
523.73	33.66	V	-59.70	-7.74	2.88	-70.31	-13.00	-57.31
850.00	66.07	V	-20.04	-7.88	3.68	-31.60	-13.00	-18.60
1697.60	55.73	V	-48.81	9.44	5.31	-44.68	-13.00	-31.68
2546.40	53.59	V	-47.05	10.20	6.63	-43.49	-13.00	-30.49
3395.20	---	V		12.38	7.33		-13.00	
4244.00	---	V		12.63	8.46		-13.00	
5092.80	---	V		12.74	9.32		-13.00	
5941.60	---	V		13.81	9.89		-13.00	
6790.40	---	V		11.86	10.87		-13.00	
7639.20	---	V		11.40	11.48		-13.00	
8488.00	---	V		11.70	12.59		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + \text{Antenna Gain (dB/dBi)} - \text{Cable loss (dB)}$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH High E1 Mode	Test Date:	Nov. 27, 2008
Fundamental Frequency	: 848.80 MHz	Test By:	Arno
Temperature	: 25	Pol:	Hor.
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
39.70	40.72	H	-62.17	-2.79	0.89	-65.86	-13.00	-52.86
51.34	42.29	H	-65.36	-0.58	1.12	-67.06	-13.00	-54.06
92.08	47.12	H	-56.47	-7.75	1.29	-65.51	-13.00	-52.51
111.48	39.69	H	-62.11	-7.77	1.41	-71.29	-13.00	-58.29
286.08	35.33	H	-62.76	-7.91	2.12	-72.80	-13.00	-59.80
850.00	71.67	H	-14.52	-7.88	3.68	-26.08	-13.00	-13.08
1697.60	62.35	H	-42.00	9.44	5.31	-37.87	-13.00	-24.87
2546.40	53.59	H	-47.01	10.20	6.63	-43.45	-13.00	-30.45
3395.20	---	H		12.38	7.33		-13.00	
4244.00	---	H		12.63	8.46		-13.00	
5092.80	---	H		12.74	9.32		-13.00	
5941.60	---	H		13.81	9.89		-13.00	
6790.40	---	H		11.86	10.87		-13.00	
7639.20	---	H		11.40	11.48		-13.00	
8488.00	---	H		11.70	12.59		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + \text{Antenna Gain (dB/dBi)} - \text{Cable loss (dB)}$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Low H Mode

Test Date: Nov. 27, 2008

Fundamental Frequency : 1850.20MHz

Test By: Arno

Temperature : 25

Pol: Ver.

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
39.70	40.09	V	-61.80	-2.79	0.89	-65.48	-13.00	-52.48
51.34	42.73	V	-64.85	-0.58	1.12	-66.55	-13.00	-53.55
67.83	41.97	V	-69.72	-0.95	1.14	-71.81	-13.00	-58.81
90.14	45.40	V	-57.78	-7.75	1.27	-66.80	-13.00	-53.80
104.69	39.67	V	-61.82	-7.76	1.38	-70.96	-13.00	-57.96
1850.00	71.93	V	-32.46	9.90	5.56	-28.12	-13.00	-15.12
3700.40	43.28	V	-54.65	12.61	8.31	-50.35	-13.00	-37.35
5550.60	---	V		13.23	9.68		-13.00	
7400.80	---	V		11.50	11.28		-13.00	
9251.00	---	V		11.92	13.10		-13.00	
11101.20	---	V		11.66	14.33		-13.00	
12951.40	---	V		13.63	15.98		-13.00	
14801.60	---	V		12.76	17.27		-13.00	
16651.80	---	V		15.92	19.04		-13.00	
18502.00	---	V		18.75	21.21		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Low H Mode

Test Date: Nov. 27, 2008

Fundamental Frequency : 1850.20MHz

Test By: Arno

Temperature : 25

Pol: Hor.

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
38.73	46.51	H	-56.68	-3.25	0.90	-60.83	-13.00	-47.83
51.34	41.88	H	-65.77	-0.58	1.12	-67.47	-13.00	-54.47
82.38	42.02	H	-61.60	-7.75	0.29	-69.65	-13.00	-56.65
92.08	45.44	H	-58.15	-7.75	1.29	-67.19	-13.00	-54.19
434.49	33.77	H	-60.91	-7.69	2.61	-71.21	-13.00	-58.21
1850.00	82.59	H	-21.59	9.90	5.56	-17.25	-13.00	-4.25
3700.40	43.96	H	-54.08	12.61	8.31	-49.78	-13.00	-36.78
5550.60	---	H		13.23	9.68		-13.00	
7400.80	---	H		11.50	11.28		-13.00	
9251.00	---	H		11.92	13.10		-13.00	
11101.20	---	H		11.66	14.33		-13.00	
12951.40	---	H		13.63	15.98		-13.00	
14801.60	---	H		12.76	17.27		-13.00	
16651.80	---	H		15.92	19.04		-13.00	
18502.00	---	H		18.75	21.21		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Mid H Mode

Test Date: Nov. 27, 2008

Fundamental Frequency : 1880MHz

Test By: Arno

Temperature : 25

Pol: Ver.

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	45.86	V	-60.32	-0.92	1.09	-62.34	-13.00	-49.34
58.13	48.76	V	-61.74	-0.49	1.08	-63.30	-13.00	-50.30
92.08	46.86	V	-56.07	-7.75	1.29	-65.11	-13.00	-52.11
126.03	42.00	V	-57.51	-7.78	1.48	-66.77	-13.00	-53.77
434.49	34.16	V	-60.26	-7.69	2.61	-70.56	-13.00	-57.56
3760.00	43.72	V	-53.94	12.60	8.39	-49.72	-13.00	-36.72
5640.00	---	V		13.36	9.73		-13.00	
7520.00	---	V		11.45	11.33		-13.00	
9400.00	---	V		11.93	13.15		-13.00	
11280.00	---	V		11.92	14.56		-13.00	
13160.00	---	V		13.33	16.11		-13.00	
15040.00	---	V		13.76	17.57		-13.00	
16920.00	---	V		15.27	19.66		-13.00	
18800.00	---	V		18.68	21.34		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Mid H Mode

Test Date: Nov. 27, 2008

Fundamental Frequency : 1880MHz

Test By: Arno

Temperature : 25

Pol: Hor.

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
39.70	39.78	H	-63.11	-2.79	0.89	-66.80	-13.00	-53.80
51.34	42.31	H	-65.34	-0.58	1.12	-67.04	-13.00	-54.04
77.53	43.57	H	-68.81	-2.12	1.21	-72.13	-13.00	-59.13
92.08	45.05	H	-58.54	-7.75	1.29	-67.58	-13.00	-54.58
104.69	39.54	H	-62.97	-7.76	1.38	-72.11	-13.00	-59.11
3760.00	44.55	H	-53.22	12.60	8.39	-49.01	-13.00	-36.01
5640.00	---	H		13.36	9.73		-13.00	
7520.00	---	H		11.45	11.33		-13.00	
9400.00	---	H		11.93	13.15		-13.00	
11280.00	---	H		11.92	14.56		-13.00	
13160.00	---	H		13.33	16.11		-13.00	
15040.00	---	H		13.76	17.57		-13.00	
16920.00	---	H		15.27	19.66		-13.00	
18800.00	---	H		18.68	21.34		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH High H Mode

Test Date: Nov. 27, 2008

Fundamental Frequency : 1909.8 MHz

Test By: Arno

Temperature : 25

Pol: Ver.

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
39.70	39.76	V	-62.13	-2.79	0.89	-65.81	-13.00	-52.81
51.34	43.88	V	-63.70	-0.58	1.12	-65.40	-13.00	-52.40
90.14	47.04	V	-56.14	-7.75	1.27	-65.16	-13.00	-52.16
104.69	40.87	V	-60.62	-7.76	1.38	-69.76	-13.00	-56.76
130.88	37.66	V	-61.40	-7.78	1.50	-70.69	-13.00	-57.69
1910.00	81.45	V	-22.88	10.08	5.66	-18.46	-13.00	-5.46
3981.60	43.32	V	-53.34	12.60	8.69	-49.44	-13.00	-36.44
5972.40	---	V		13.86	9.91		-13.00	
7963.20	---	V		11.27	11.88		-13.00	
9954.00	---	V		12.08	13.43		-13.00	
11944.80	---	V		13.08	15.21		-13.00	
13935.60	---	V		11.82	16.86		-13.00	
15926.40	---	V		17.08	18.33		-13.00	
17917.20	---	V		9.63	20.12		-13.00	
19908.00	---	V		18.88	20.85		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH High H Mode

Test Date: Nov. 27, 2008

Fundamental Frequency : 1909.8 MHz

Test By: Arno

Temperature : 25

Pol: Hor.

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
39.70	38.87	H	-64.02	-2.79	0.89	-67.71	-13.00	-54.71
51.34	41.83	H	-65.82	-0.58	1.12	-67.52	-13.00	-54.52
92.08	45.19	H	-58.40	-7.75	1.29	-67.44	-13.00	-54.44
167.74	34.76	H	-64.39	-7.81	1.63	-73.83	-13.00	-60.83
552.83	33.41	H	-58.25	-7.76	2.96	-68.98	-13.00	-55.98
1910.00	81.45	H	-22.66	10.08	5.66	-18.24	-13.00	-5.24
3981.60	43.16	H	-53.61	12.60	8.69	-49.71	-13.00	-36.71
5972.40	44.88	H	-44.75	13.86	10.73	-41.63	-13.00	-28.63
7963.20	---	H		11.27	11.88		-13.00	
9954.00	---	H		12.08	13.43		-13.00	
11944.80	---	H		13.08	15.21		-13.00	
13935.60	---	H		11.82	16.86		-13.00	
15926.40	---	H		17.08	18.33		-13.00	
17917.20	---	H		9.63	20.12		-13.00	
19908.00	---	H		18.88	20.85		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + \text{Antenna Gain (dB/dBi)} - \text{Cable loss (dB)}$

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10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

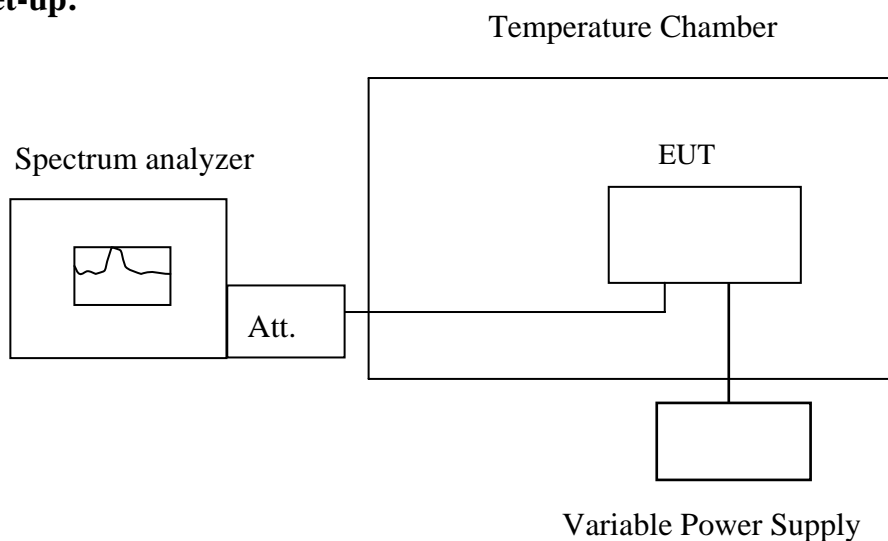
10.1 Standard Applicable

According to FCC §2.1055(d)(1)(2)

Frequency Tolerance: ± 2.5 ppm for 850MHz band

± 2.5 ppm for 1900MHz band

10.2 Test Set-up:



Note : Measurement setup for testing on Antenna connector

10.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

10.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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10.5 Measurement Result

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	836.599954	45.00	2091
3.7	-20	836.599916	83.00	2091
3.7	-10	836.599977	22.00	2091
3.7	0	836.599902	97.00	2091
3.7	10	836.599963	36.00	2091
3.7	25	836.599999	0.00	2091
3.7	30	836.599923	76.00	2091
3.7	40	836.599941	58.00	2091
3.7	50	836.599917	82.00	2091

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	1879.999962	35.00	4700
3.7	-20	1879.999975	22.00	4700
3.7	-10	1879.999943	54.00	4700
3.7	0	1879.999966	31.00	4700
3.7	10	1879.999914	83.00	4700
3.7	25	1879.999997	0.00	4700
3.7	30	1879.999922	75.00	4700
3.7	40	1879.999953	44.00	4700
3.7	50	1879.999967	30.00	4700

Note: The battery is rated 3.7V dc.

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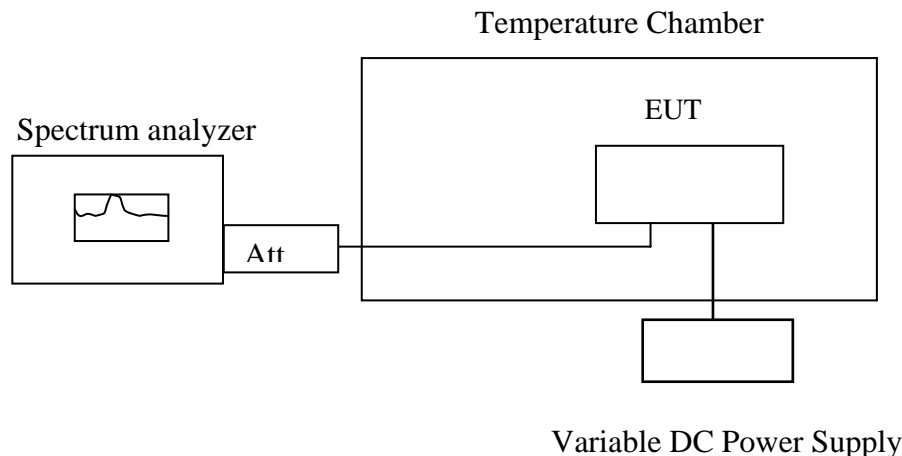
11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

11.1 Standard Applicable

According to FCC §2.1055(d)(1)(2)

Frequency Tolerance: ± 2.5 ppm for 850MHz band
 ± 2.5 ppm for 1900MHz band

11.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

11.3 Measurement Procedure

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specified extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

11.4 Measurement Equipment Used:

Refer to section 2.4 in this report

11.5 Measurement Result

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.70	25	836.599999	0.00	2091
3.50	25	836.599972	27.00	2091
4.25	25	836.599943	56.00	2091
3.50 (End Point)	25	836.599972	27.00	2091

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.70	25	1879.999997	0.00	4700
3.50	25	1879.999953	44.00	4700
4.25	25	1879.999966	31.00	4700
3.50 (End Point)	25	1879.999953	44.00	4700

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12. AC POWER LINE CONDUCTED EMISSION TEST

12.1 Standard Applicable

According to §15.207. The emission value for frequency within 150KHz to 30MHz shall not exceed criteria of below chart.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note		
1.The lower limit shall apply at the transition frequencies		
2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

12.2 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4:2003.
2. The EUT was plug-in DC power adaptor and was placed on the center of the back edge on the test table. The peripherals like earphone was placed on the side of the EUT. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The Power adaptor was connected with 120Vac/60Hz power source.

12.3 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

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12.4 Measurement Equipment Used:

Refer to section 2.4 in this report

12.5 Measurement Result

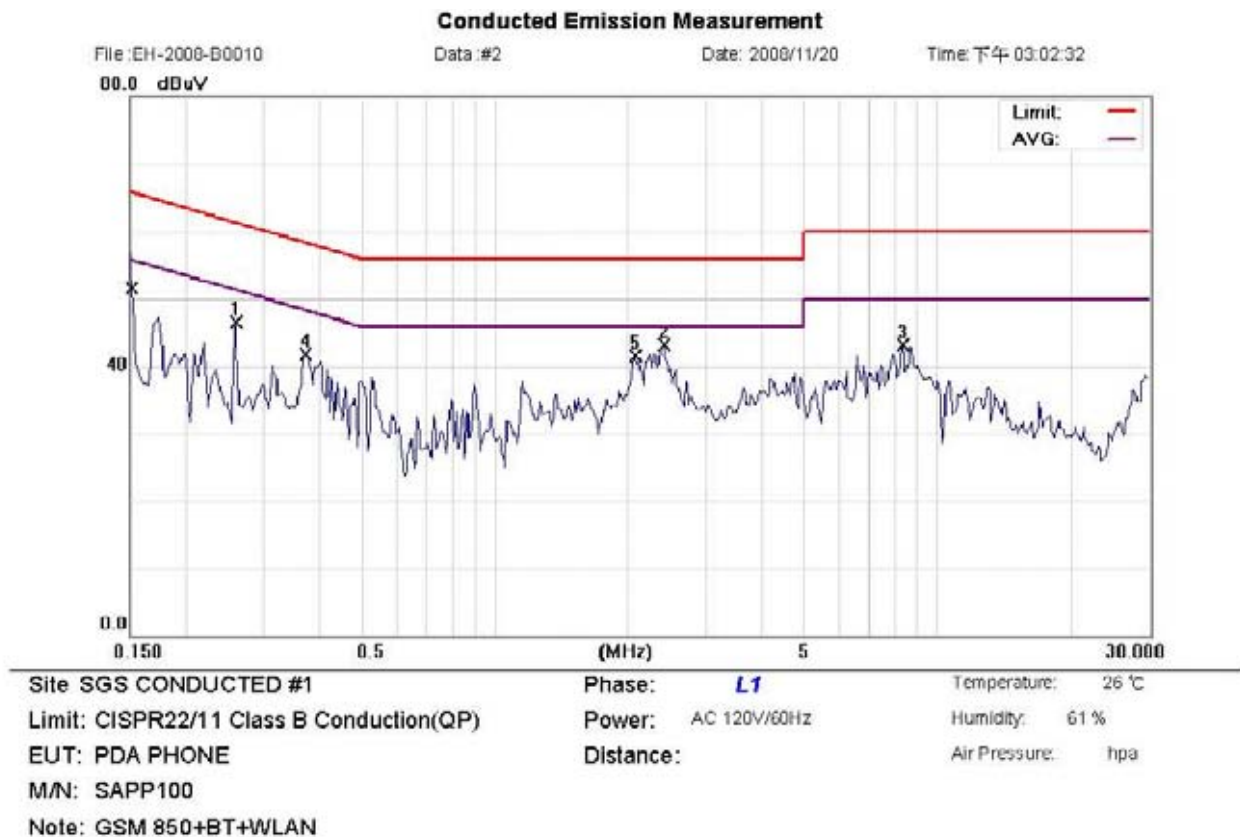
The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 850 + BT+ WLAN LINK			Test Date:	Nov. 20, 2008
Temperature:	26 °C	Humidity:	61 %	Test By:	Arno
Adapter mode:	PSAA05A-050				



No. Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2600	46.44	0.14	46.58	61.43	-14.85	QP	
2 *	2.4100	43.06	0.04	43.10	56.00	-12.90	QP	
3	8.3600	42.91	0.12	43.03	60.00	-16.97	QP	
4	0.3750	41.62	0.10	41.72	58.39	-16.67	QP	
5	2.0700	41.40	0.04	41.44	56.00	-14.56	QP	
6	0.1525	36.35	0.40	36.75	65.86	-29.11	QP	
7	0.1525	24.32	0.40	24.72	55.86	-31.14	AVG	

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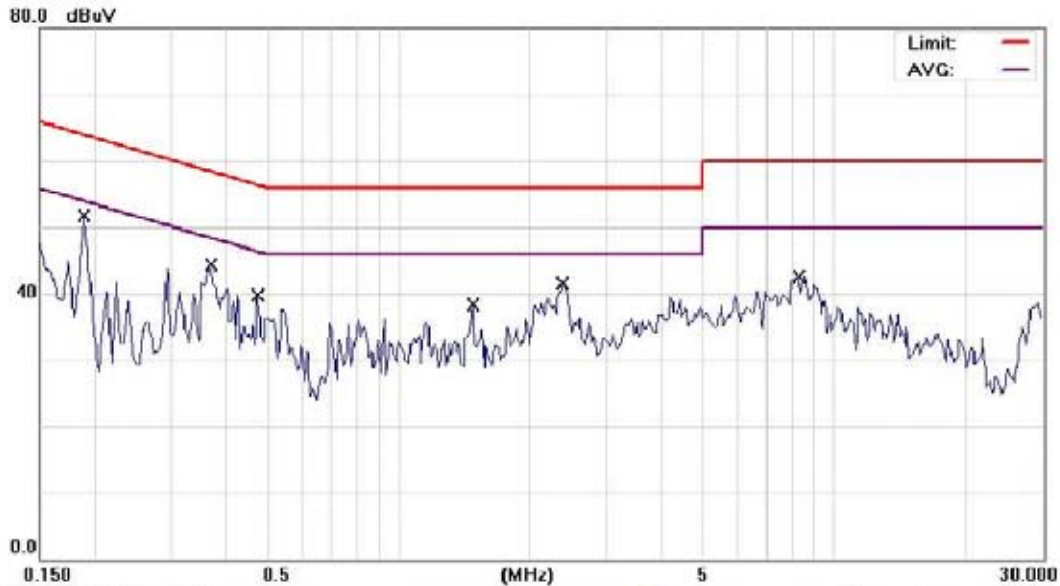
Conducted Emission Measurement

File: EH-2008-B0010

Data: #4

Date: 2008/11/20

Time: 下午 03:07:24



Site: SGS CONDUCTED #1

Limit: CISPR22/11 Class B Conduction(QP)

EUT: PDA PHONE

M/N: SAPP100

Note: GSM 950+BT+WLAN

Phase: L2

Power: AC 120V/60Hz

Distance:

Temperature: 26 °C

Humidity: 61 %

Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1900	51.47	0.17	51.64	64.04	-12.40	QP	
2		0.3700	44.27	0.07	44.34	58.50	-14.16	QP	
3		0.4750	39.69	0.04	39.73	56.43	-16.70	QP	
4		1.4800	38.27	0.01	38.28	56.00	-17.72	QP	
5		2.3800	41.51	0.01	41.52	56.00	-14.48	QP	
6		8.2800	42.42	0.07	42.49	60.00	-17.51	QP	

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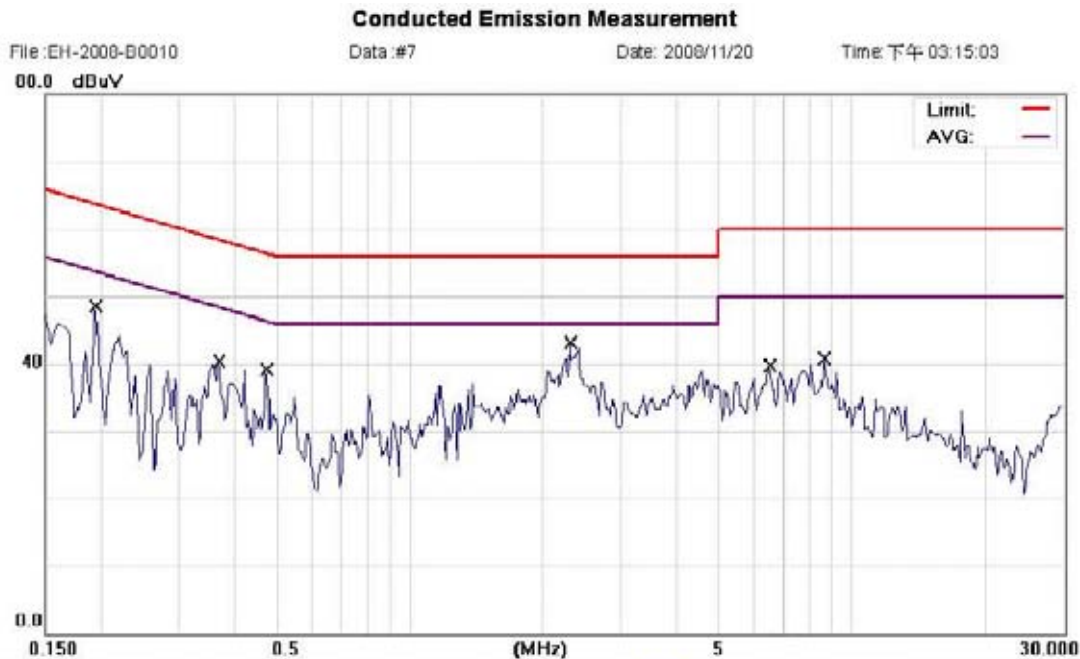
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	PCS 1900 + BT+ WLAN Link			Test Date:	Nov. 20, 2008
Temperature:	26 °C	Humidity:	61 %	Test By:	Arno
Adapter mode:	PSAA05A-050				



Site SGS CONDUCTED #1

Limit: CISPR22/11 Class B Conduction(QP)

EUT: PDA PHONE

M/N: SAPP100

Note: GSM 1900+BT+WLAN

Phase: L1

Power: AC 120V/60Hz

Distance:

Temperature: 26 °C

Humidity: 61 %

Air Pressure: hpa

No. Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.1950	48.33	0.19	48.52	63.82	-15.30	QP	
2	0.3700	40.29	0.10	40.39	58.50	-18.11	QP	
3	0.4750	39.10	0.07	39.17	56.43	-17.26	QP	
4 *	2.3100	43.05	0.04	43.09	56.00	-12.91	QP	
5	6.5000	39.60	0.09	39.69	60.00	-20.31	QP	
6	8.6600	40.52	0.12	40.64	60.00	-19.36	QP	

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Conducted Emission Measurement

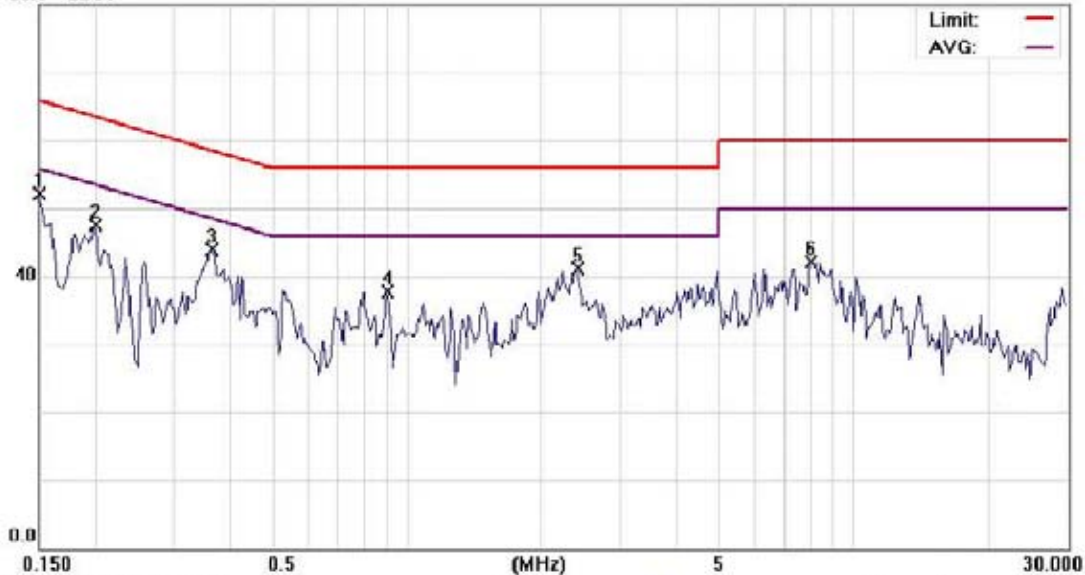
File: EH-2008-B0010

Data: #6

Date: 2008/11/20

Time: 下午 03:11:59

80.0 dBuV



Site: SGS CONDUCTED #1

Phase: L2

Temperature: 26 °C

Limit: CISPR22/11 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61 %

EUT: PDA PHONE

Distance:

Air Pressure: hpa

M/N: SAPP100

Note: GSM 1900+BT+WLAN

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	51.68	0.35	52.03	66.00	-13.97	QP	
2		0.2000	47.34	0.12	47.46	63.61	-16.15	QP	
3		0.3650	43.80	0.07	43.87	58.61	-14.74	QP	
4		0.9000	37.61	0.01	37.62	56.00	-18.38	QP	
5		2.4000	41.13	0.01	41.14	56.00	-14.86	QP	
6		8.0000	42.11	0.07	42.18	60.00	-17.82	QP	

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